

Saturday 16 May 2015

# Amateur Photographer

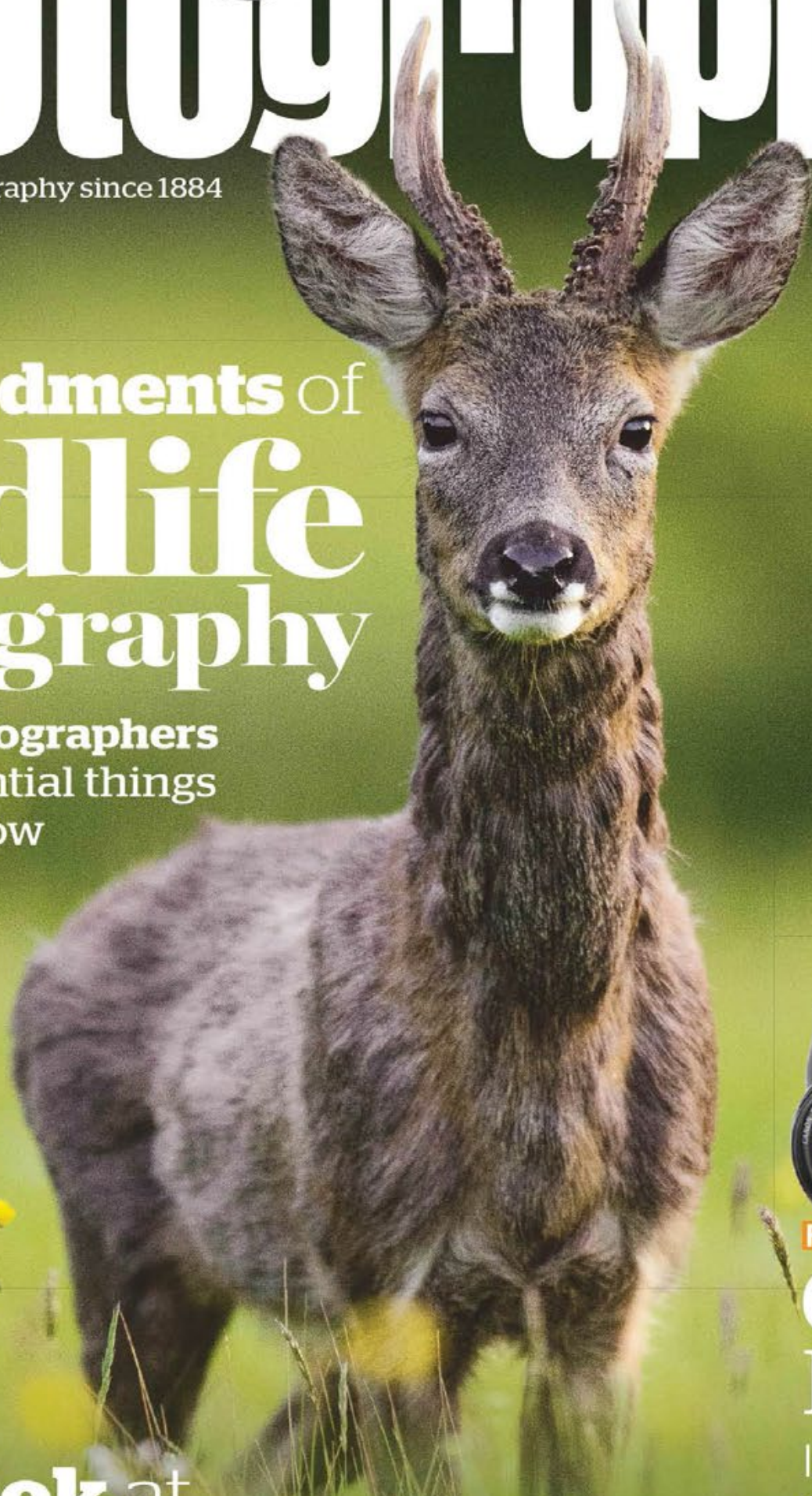
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## The **10** **Commandments** of **wildlife** **photography**

**Three top photographers**  
reveal the essential things  
you need to know



**FULL TEST**

## **Canon** **EOS M3**

Is this the CSC  
**Canon** should have  
made to start with?

## A **new look** at **architecture**

Why simplicity is the key  
for images with impact

**LOCATION GUIDE** Mark Bauer recommends a favourite corner of Wiltshire



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COVER PICTURE © RICHARD PETERS

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From the first doodles with a pencil to a finished product arriving in a shop, it can take years to design and manufacture a camera. If you

are starting a new range, the planning and development stages are critical. Designers must look at trends, develop new technologies and predict what the competition will be doing in a few years' time. Most importantly, the camera has to live up to the expectations of

you, the demanding enthusiast photographer.

Arguably, Canon got its EOS M compact system camera wrong. The company's first attempt at a CSC was clunky, slow to autofocus and seemed a couple of years behind the competition. The follow-up, the EOS M2, was only released in Asia and the original EOS M camera was last on sale for as little as £199. On pages 42-47 we test the EOS M3 and find out whether Canon has finally caught up with the competition. **Richard Sibley, deputy editor**

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## ONLINE PICTURE OF THE WEEK



© PATRICK TROMBLY

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## Death Valley by Patrick Trombly

Canon EOS 650D, 18-55mm, 1/160sec at f/13, ISO 100

This image of Death Valley in California, USA, was uploaded to our Flickr page. 'I am a travelling sound guy and drummer, and I had shows in the area,' says Patrick. 'I found myself with a rare day off and a friend had recommended that I venture out into the valley to have a look around. Luckily, I always carry my camera with me. As I pulled into

one of the turnouts, the horizon just grabbed my eyes. All the textures and unique layers of desert colours against the vibrant blue sky looked like an alien planet to me. I got set up and took three exposures before I moved on. It was only later, when I got back to my hotel, that I discovered the image I had captured. I thought it was beautiful.'

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## NEWS ROUND-UP

The week in brief, edited by Chris Cheesman

### Weston shocker

A man who appeared on a US version of *Antiques Roadshow* was stunned to learn that four Edward Weston prints that had been languishing in a box at home are worth more than \$250,000. 'It was interesting to hear the history behind the photographs,' said Andrew, owner of the 1930s prints that had been in his family for more than 50 years.



© KEVIN FRAYER

### Hondros winner

Canadian photographer Kevin Frayer has won the fourth annual Getty Images and Chris Hondros Fund Award, and receives a grant of \$20,000 for his documentary work. The award is named in honour of photojournalist Chris Hondros, who was killed in Libya in 2011.



### Baltimore shots

An amateur photographer's incredible black & white documentary photos of the Baltimore riots in America have reinforced the power of citizen journalism, by scooping professional photojournalists in reporting on the event. 'Guess I'm a real photographer now,' wrote Devin Allen on his Twitter account, as he was besieged by the world's media.



Devin Allen's Twitter account @DVNLLN

© DEVIN ALLEN

© LEICA

### Leica on location

Leica has announced a series of workshops where students are loaned a Leica for the course. The first is a four-day event in Provence, France, in May, called Travel with Jules. Visit [www.travelwithjules.co.uk/experiences/leica-location](http://www.travelwithjules.co.uk/experiences/leica-location).



© CHRIS PACKHAM

### Contemporary stars

Getty Images has revealed its shortlist of 20 young contemporary photographers as part of a new competition to find the stars of the future. The Next Photographer Award is organised by Getty in a tie-up with Design and Art Direction, a body that aims to promote excellence in design and advertising. To view the images, visit [www.dandad.org/en/next-photographer-award](http://www.dandad.org/en/next-photographer-award).



© FLORIAN MAAS



## WEEKEND PROJECT

### Photograph your car

Whether you have a gorgeous classic, a hot hatch or a family runaround, why not try to shoot your car in a style that wouldn't look out of place in a glossy car magazine? Take a look at a few car magazines for inspiration and try to deconstruct why they work so well. Think about the angle and framing, focal length used, location and if they've captured that feeling of speed. Before you set off with your camera and car, though, make sure it is spotlessly clean - even the best Photoshop retouching can't clean a grubby car, while you'll need an insured friend free to do the driving. And think where you're going to shoot as well: avoid busy roads, opting for quiet country lanes towards the end of the day that are dappled in warm evening light.

**1** The obvious place to start is with a panning shot. Experiment with shutter speeds and, to help, ask someone to drive the car past you relatively slowly. Also, set yourself as far back from the road as possible.

**2** For static shots, get down low to add drama and use a telephoto lens to compress perspective. Think about the angle and try to get a pleasing and balanced front three-quarter shot, maybe tilting the camera a little.



# BIG picture

Chris Packham exhibits work at the World Land Trust Art Gallery

◀ While many of us know Chris Packham as a wildlife presenter, others will know him as a keen photographer. Photographs by Chris Packham are a special feature of Watching Spring: a Celebration of the Season, an exhibition at the World Land Trust Art Gallery in Halesworth, Suffolk. The World Land Trust Gallery specialises in wildlife and landscape artworks, so it's a fitting home for such a well-known naturalist. Chris's new book *100 Things That Caught My Eye* will be on sale in the gallery during the show. It's worth noting that Watching Spring also features original works by AP contributor David Tipling.

The exhibition runs until 20 June. For more information visit [www.worldlandtrust.org](http://www.worldlandtrust.org).

## Words & numbers

If each photograph steals a bit of the soul, isn't it possible that I give up pieces of mine every time I take a picture?

**Richard Avedon**  
American photographer  
(1923-2004)

**16.8%**

Increase in demand for superzoom compacts in the UK in March 2015, compared with the same month last year

SOURCE: GFK



**3** Dedicated boom arms allow you to attach a camera to the car, so you can capture (triggering the camera remotely) close-up shots while the car's moving. Even 5mph is enough – the arm can be removed in Photoshop.

**4** Don't just think about shooting the whole car, either. Look to pick out those little details on the body as well as the interior. A 50mm fast prime lens on a full-frame body is perfect for isolating these elements of the car.

© PHIL HALL




Boom arms can produce striking results





The design of the M Monochrom is based on the M-P (Type 240)

# Leica unveils updated M Monochrom

 LEICA has announced the M Monochrom (Type 246), an updated version of its black & white-only rangefinder camera. Whereas the original M Monochrom was based on the M9 with its 18MP CCD sensor, the new model is based on the latest M-P (Type 240) that uses a 24MP full-frame CMOS sensor. The Type 246 has an identical body design to the M-P, but the sensor has no colour filter array (CFA), resulting in exceptionally sharp monochrome images.

Removal of the CFA means that more light reaches the sensor, and this has a knock-on effect to the sensitivity range, which now covers ISO 320-25,000. Leica says that dynamic range is also improved, and recorded in the 14-bit DNG raw files.

The rear 912,600-dot LCD uses a 'sapphire-crystal' glass cover with anti-reflective coatings. Continuous shooting is available at 4fps, thanks to a 4GB buffer and Leica's Maestro processor.

As the sensor has no colour sensitivity at all, contrast control requires on-lens coloured filters, just as with black & white film. Leica will be releasing its own yellow, orange and green filters in 39mm and 46mm sizes to go with the M Monochrom.

The camera has live view, with 5x and 10x magnified views, plus a peaking display for critical focusing. This outlines high-contrast edges in red, which stands out nicely against the monochrome image. The camera also has a port for the optional EVF-2 viewfinder, as used by the Type 240 (and the same as the Olympus VF2).

The M Monochrom also allows full HD movie recording, and while it has no built-in



The optional EVF-2 viewfinder can be attached


microphone socket, one can be added via an adapter that slots onto the accessory shoe. Unfortunately, you can't use the EVF and microphone adapter at the same time.

The camera is finished in a discreet matt-black finish, with no Leica red dot. New versions of Leica's 50mm f/1.4 and 35mm f/2 lenses will be available in the same finish to match. All the same accessories as the M (Type 240) can be used, including the optional handgrip that has built-in GPS and allows tethered studio shooting.

The M Monochrom (Type 246) will go in sale in mid-May, priced £5,750.



## Superzooms and compacts buck the trend

 PREMIUM compact cameras and superzoom models continue to boom amid a general decline in camera sales.

According to GfK figures, UK sales of premium compacts rose 24% in value from January to March 2015, compared to the same period last year. Unit sales grew 9.1%.

Demand for compact cameras with 20x zooms and above rose 7.5% and 11.1% in value and volume terms respectively. In March alone, unit sales of superzoom compacts increased 16.8%.

The growth came as overall demand for digital cameras fell 16.8% from January-March, compared to the same period in 2014.

SLR sales dropped 8.5%, while CSC sales dropped 7.6% and 5.2% in volume and value.

The total value of the UK photographic market fell 8.1% in March, compared to March 2014.



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'Sapphire-crystal' coating prevents LCD reflections



# DSLR-quality photos in next Apple iPhone?

APPLE has acquired a technology company that develops cameras it claims will lead to DSLR-quality images in smartphones.

According to a report in *The Wall Street Journal* (WSJ), and reported elsewhere, Apple paid around \$20m for LinX Computational Imaging Ltd. Apple and LinX had yet to respond to requests for comments when contacted by *Amateur Photographer*.

In April, Apple appeared to neither confirm nor deny the reports, telling the WSJ that it 'buys smaller technology companies from time to time'.

Meanwhile, in a statement on its website, LinX says: 'Utilising



state-of-the-art multi-aperture imaging technology that combines innovative image processing, advanced sensor and optics technology, our cameras set new standards for

image-quality parameters such as low-light performance, HDR, refocusing, colour fidelity, shutter lag and more...

'LinX cameras are significantly smaller than any camera on the market today, leading the way to DSLR performance in slim handsets. The LinX cameras not only capture 2D images, but also acquire very accurate depth information of the complete scene.'

'We allow apps to freely use the 3D information captured by our camera to achieve amazing new features such as the ability to refocus an image after it has been captured, measurement of the true dimensions of objects and 3D object modelling...'

## Boxing image is a knock-out

AN AMATEUR photographer has beaten hundreds nationwide to win Skipton Building Society's Grassroots Giving photography competition.

Angela Baker, a deputy head teacher from Hull, won the title with an image taken at the Stevie Smith Boxing Academy, earning her a £200 gift voucher and national exposure.

Angela said: 'I really enjoyed the whole process and getting to know members of my local community.'

'I'm delighted that my photograph was chosen as the winner and that it will showcase the positive attributes that this and many other community groups have in Hull.'

The contest sought documentary-style photos as part of the Grassroots Giving photography project.



Angela Baker's winning Grassroots Photography image

For the latest news visit [www.amateurphotographer.co.uk](http://www.amateurphotographer.co.uk)

## Get up & go

The most interesting things to see, to do and to shoot this week. By Jon Stapley



### Walkfest North York Moors

Head to the North York Moors National Park next weekend for a series of guided walking tours of the best sights, courtesy of the area's first walking festival. The full itinerary includes a walk specifically for nature and photography.

22-25 May, [www.northyorkmoors.org.uk](http://www.northyorkmoors.org.uk)



### Affinity Photo Competition

A cash prize of \$1,000 is on offer to photographers who submit an image that has been edited or adjusted in Affinity Photo for Mac. The software is free, so you've definitely got nothing to lose.

Until 31 May, [shoottheframe.com/affinity-photo](http://shoottheframe.com/affinity-photo)



### Bridge & Blackwalls

American photojournalist Robert Gumpert presents a limited run of images on a pair of interesting architectural themes – the rust and erosion of London's Westbourne Road bridge, and the 'darkness and decay' of San Francisco, USA.

May 18-23, [facebook.com/thebridgeandblackwallsexhibition](http://facebook.com/thebridgeandblackwallsexhibition)



### Abstracts

The five members of photographic collective AM Projects present an exhibition of contemporary abstractions that use a variety of photographic processes and techniques. Explore the possibilities of the medium.

12-25 May, [www.copperfieldgallery.com](http://www.copperfieldgallery.com)



### Epson International Pano Awards 2015

With a prize pool worth \$50,000, you'd best get practising your panoramic stitching right away if you want to put something together in time for the Epson Pano Awards' deadline. By the way, the new Lightroom 6 has a new panoramic mode.

Until 26 July, [thepanoawards.com](http://thepanoawards.com)





# Viewpoint Tony Kemplen

Instant photo gratification was available way before smartphones, says **Tony Kemplen**, as he tries out a Polaroid Spectra using film from The Impossible Project

**T**he 20th century saw many film formats come and go. One or two, such as 127 rollfilm and 110 cartridges, enjoyed a comeback, but perhaps the most surprising revival is that of Polaroid instant film. I say surprising, because for more than a decade instant gratification in the photo department has been available to anyone with a smartphone or digital camera.

So when The Impossible Project, a group of Polaroid enthusiasts, took over the company's old production machinery, it was an act of faith that there would be enough interest to make it viable. Clearly there was, as five years on it now produces several varieties of instant film.

## Popular make

Polaroid cameras were extremely common in the 1970s and the run-of-the-mill models don't fetch much. In fact, *McKeown's Price Guide to Antique and Classic Cameras*, values them at '\$5 per truckload, delivered'. There were some more sophisticated versions, though, and the Polaroid Image System, known as the Spectra, is one of these. It has a sonar-type autofocus, and switches to allow control over exposure and flash settings.

Mine came with a set of five special-effect filters, such as starburst, a five-image prism and a motion-blur simulator. The camera was in excellent condition, but as the batteries are built into the film cartridge, rather than housed in the camera, there is no simple way of testing it, short of actually putting film in it.

The first thing you need to know about



Detail of Sheffield's 'Cheesegrater' car park shot with PZ 600 Silver Shade film

using this type of film is that, when it emerges from the front of the camera, it's still sensitive to light, so cover it immediately otherwise your pictures will be bleached out. Later films had an opacifying layer to keep the light out.

Instant film doesn't come cheap. I used The Impossible Project's PZ 600 Silver Shade, which is a monochrome emulsion, giving a sepia-toned image in a chocolate-brown border. The current price for this film is around £17 for eight prints, which at least makes you think very carefully about subject and composition.

With hindsight, it may have been overkill to use the five-way prism on this already visually busy subject, Sheffield's iconic 'Cheesegrater' car park (see above), but the glitch with the spreading of the chemicals does lend it something of the Hammer horror film. You can also see smears of the chemicals on the edge of the mount, so these newly produced films are not yet perfect.

In fact, mine gave up the ghost after only six photos, and two of these had the same glitch. I think I'll be sticking to conventional films for the time being.

Tony Kemplen's love of photography began as a teenager and ever since he has been collecting cameras with a view to testing as many as he can. You can follow his progress on his 52 Cameras blog at [52cameras.blogspot.co.uk](http://52cameras.blogspot.co.uk). You can also see more photos from the Polaroid Image System at [www.flickr.com/tony\\_kemplen/sets/72157631145891116](http://www.flickr.com/tony_kemplen/sets/72157631145891116)



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## New Books

The latest and best books from the world of photography. By Oliver Atwell



© CHARLES FRÉGER

## Portraits in Lace: Breton Women

by Charles Fréger, Thames & Hudson, £24.95, hardback, 264 pages, ISBN 978-0-50051-799-4



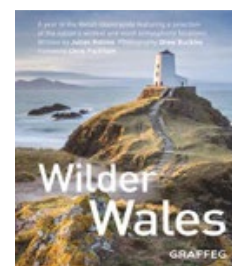
CHARLES Fréger's previous book, *Wilder Mann* was one of my favourites of 2012. Fréger travelled throughout Europe and documented people wearing the skins of the 'savage' (fox, stag, boar) during masquerades that stretch back

centuries. In *Portraits in Lace*, Fréger once again finds a set of individuals observing archaic customs in the modern world. He travelled to the isolated villages of Brittany in France and found women attempting to revive the centuries-old costume traditions of their ancestors. These 'Celtic circles' participate in summer festivals and work hard to create the centrepiece of their 1850s costumes – elaborately constructed headdresses. These young feminine Breton folk revivalists stand in stark contrast to the wild masculinity of Fréger's previous project and, as such, add a gentle and warm balance to his growing body of work.

*Portraits in Lace* is a wonderful project. ★★★★★

## Wilder Wales

by Julian Rollins and Drew Buckley, Graffeg, £20, paperback, 192 pages, ISBN 978-1-90982-307-5



THE UK may be small, but it is host to a number of the most stunning locations you will ever set eyes on. This may sound obvious, but it's worth bearing in mind the next time you're trying to scrape together some savings to fly off to Iceland. Wales is home to some

absolutely captivating locations, and in this book writer Julian Rollins and photographer Drew Buckley take you on a grand tour of the country. Rollins' lovely text is an endlessly readable and almost narrative-driven travel guide, while Buckley, a photographer we've featured before in *AP*, excellently draws out the spirit and atmosphere of the locations. It's a book full of essential information and acts as a fitting inspiration if you're looking to get out there into the wild with your own camera. ★★★★★



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## Andrew Mason

Andrew Mason is a full-time professional nature photographer. His work is widely published and has been used in books and magazines, and by corporate and government clients.  
[www.andrewmasonphotography.co.uk](http://www.andrewmasonphotography.co.uk)

Less glamorous animals, such as these fighting blackbirds, shouldn't be overlooked, as there can be a striking shot to be had. It can also help improve your skills for the future



## 10 Commandments of Wildlife photography

Three **top wildlife photographers** share their **expert tips and techniques** gleaned over many years of working in the field capturing a range of creatures

**1 Don't get starstruck** It's human nature to get a little starstruck now and again, as I did when I realised that I was sitting next to actress Keira Knightley in a restaurant! It is understandable that most wildlife photographers will have certain animals, such as lions, tigers and bears, high on their wish list of subjects. However, there are not many photographers who are fortunate enough to be able to spend a great amount of time working with such animals. For most, the opportunity to photograph them will probably be a once-in-a-lifetime experience.

While these star animals make great subjects to photograph, less glamorous animals should not be overlooked. Wildlife photography is the product of many factors, principally content and light. A star animal in the viewfinder does not guarantee a great image – a bad image of a lion is still a bad image. Many animals that are frequently

overlooked are easy to access for little or no cost. For example, blackbirds are photographically an unremarkable little bird and are frequently ignored in preference to other, more colourful birds, such as kingfishers. A few winters ago, during a period of prolonged cold weather, food became scarce for many of the animals in the area where I live. This resulted in a larger than usual number of animals, including blackbirds, congregating at a feeding station near my home.

With the access road to the feeding station closed, the number of visitors putting food out was limited and as soon as any feed was put out for the birds, the blackbirds would descend on it. Desperate for food, fights would frequently break out between the blackbirds (see image above). This action, coupled with the wintry conditions, elevated these unremarkable birds to A-list status.



**When shooting in harsh conditions, make sure you protect your gear. After each day's photography, check and clean it, removing dust and dirt**

## 2 Look after your gear

Shooting in harsh environments places great demands on

equipment. Having your camera kit fail for whatever reason can result in lost images from encounters that may never be repeated.

Even if the problem occurs in the UK it will take days, if not weeks, for repairs to be completed. Simple precautions and maintenance can go a long way to prevent avoidable problems and allow you to keep shooting. A second backup body and doubling up on key focal lengths (teleconverters and a cropped-sensor/high-resolution DSLR on shorter telephoto lenses can replicate longer focal lengths) can be used if the primary camera and lens fail.

Carrying a DSLR with a super-telephoto lens attached to a heavy tripod on your shoulder for anything other than short distances, and especially off the

beaten track, is not only uncomfortable, but also risks damaging your gear and injuring you. A small maintenance and repair kit with a multi-tool, Allen keys, gaffer tape and superglue will fix most minor issues.

Protect equipment when photographing in harsh environments, such as prolonged exposure to rain, snow, salt water and dust. Avoid changing lenses or teleconverters in these conditions. Doing so can result in expensive professional cleaning, at the very least. Water that penetrates and then freezes can jam camera and lens controls – and tripod legs. Rain and dust covers are a simple and relatively cheap way to protect equipment in these conditions, and some manufacturers make insulated versions for extreme cold weather. Plastic bags and old pillowcases are cheaper alternatives.

Be careful when taking equipment between areas of contrasting temperatures and humidity – acclimatise equipment inside a sealed camera or plastic bag to prevent condensation from developing inside camera gear.

## 3 Watch the background

The background in a wildlife image is just as important as the subject you focus on. The colour and brightness of the background and how much of it is in focus relative to the subject will affect the image. These factors can be used to create harmony or tension within an image, and can also be used to isolate or include an animal in its environment. The focal length of the lens used, aperture selected and the relative distances between the photographer, subject and background all affect how the background is rendered in a photograph.

Distracting elements can ruin an otherwise good image, as the eye will be drawn away from the subject. To avoid this, scan the viewfinder for any distracting elements when composing a shot, especially the edges. Pay particular attention to any spots of conflicting colour and any vegetation that appears to grow out of the subject's head or any other part of its body!

When composing an image, where possible and safe to do so, do not simply choose the first spot



**When composing an image, such as this shot of a capercaillie, avoid distracting elements and think about your positioning**

you see and stand still. Try moving position relative to the subject and the background. Small changes in position can make critical improvements in the composition of an image and eliminate any distractions. When using a long

focal length, by lowering your position relative to the subject, the in-focus area immediately behind the subject will be hidden and the background will instead be an area that is further away and out of focus. As well as changing position,

try different focal lengths and apertures. When evaluating changes, use the depth of field preview function when looking through the viewfinder or make a test image and review it using the camera's live-view function.





## Richard Peters

Richard Peters is a UK-based wildlife photographer whose passion stems from watching natural history documentaries in his youth. Now his photographs and articles are published regularly, and his images have won numerous awards. [www.richardpeters.co.uk](http://www.richardpeters.co.uk)

### 4 Work the light

Bright, warm light is what most people think of when you say 'good light'. But the truth is, there is no such thing as bad light – bad light to obtain a specific style of photo, yes, but bad light in general, no. By learning what can be achieved with varying lighting conditions, you will improve your chances of coming away from a shoot without a completely empty memory card.

When the light is bright and warm, such as sunrise or sunset,

try placing yourself between the sun and the subject for a nice evenly lit scene, or place the subject between you and the sun for some creative backlighting.

However, much more fun can be had when the light is not as bright. Overcast conditions are good for picking out feather and fur detail that would otherwise be lost in more contrasty conditions. This applies to both light and dark-coloured subjects, but be sure to keep an eye on your exposure, as the camera will want to brighten

the scene to compensate for the lower light levels. Some underexposure may have to be dialled in manually to achieve the desired results. Very low light can also lend itself well to the use of flash, where you can intentionally underexpose the image, then use a flash gun to light up the subject. This gives a very dramatic feel to the final picture. If you don't have a flashgun, try stopping down your aperture, lowering your ISO and reducing your shutter speed to capture motion in your image.



By sitting on a hillside, I was able to shoot across at eye level to this red kite, using the distant countryside fields and trees to provide a complementary background colour, rather than a typical blue sky

### 5 Add perspective

One of the best ways to draw a viewer into a photograph is to get your camera at eye-level with the subject. Of course, this may mean getting dirty, as a lot of animals are very small and most often found at ground level, but your images will take on an entirely new look if you do.

You can expand on this viewpoint by using close foreground and distant background elements to surround the subject in a completely out-of-focus palette of colour, or have the ground beneath the subject sharp and in focus, just leaving the background diffused.

But eye level is not all about getting down low to the ground – it's simply a case of getting the right angle on a subject. Often with birds in flight, for example, the easiest image is obtained by looking straight up into the sky at them, but this can produce very unflattering images that lack impact. At best, you'll see the underside of the bird set against a plain blue sky, and at worst, an underexposed silhouette against a plain white, cloudy sky.

Avoid the temptation to photograph birds until they are lower in the air, and all the better if you can get yourself up to a higher vantage point.



Keeping the perch in focus helps to give context to this shot of a jackdaw, while the out-of-focus background keeps the portrait free of clutter



A very bright day is perfect for photographing light-coloured subjects. Exposing for the feathers of this cygnet has naturally underexposed the water, providing a dark backdrop



ALL PICTURES THESE PAGES © RICHARD PETERS

Roe deer are notoriously tricky to photograph. Most images, such as this one, show that the circle of fear has been breached, even though a 600mm lens was used to keep a distance

## 6 Be ethical

Wildlife should always be respected. It goes without saying that if obtaining an image results in distress to the subject, the image should not be taken. All animals have a 'circle of fear', and once you are within that, at the very least you will start to affect their natural behaviour and, at worst, disturb them to the point of making them move away. There are also a variety of animals in the UK protected by the Wildlife and Countryside Act 1981, which should be strictly adhered to, especially any subject falling under Schedule 1. If in any doubt, consult the Act to make sure capturing that prized image isn't putting you on the wrong side of the law.

The biggest subject that divides opinion is that of baiting. To an extent, each photographer will have his or her own opinion.

Should one animal be sacrificed to another in order to obtain an image? Most would say no, but then others will say it depends on the circumstances, the subject being photographed and the bait being used, and indeed many images out there will confirm those divisions in opinion. Even baiting with food such as seeds and nuts is seen as unacceptable by some, as you are making an animal move to a place of your choosing that it otherwise may not have gone to, in order to photograph it. Again, opinion is divided, but it is important to ensure that any food put out is not bad for the animal and that you do not overfeed, making the animal reliant on your food source.

A small amount of bird food was used to get this pigeon into the pocket of light to capture this image. Without the food, it may not have moved into the right position







## David Tipling

David Tipling is one of the most widely published wildlife photographers in the world. His pictures have appeared on hundreds of book and magazine covers, and have been used in various ways – from wine labels to projections in New York's Times Square. [www.davidthipling.com](http://www.davidthipling.com)



Researching your subject will help you get one step closer to capturing your dream image

## 7 Observe the three Ps

I believe the key to success for a wildlife photographer is the three Ps: perseverance, patience and planning. Unless you get lucky, perseverance will always win out. The more you persevere, the luckier you'll get. I tend to work on one subject at a time and maximise my time in the field. Most recently, I have been focusing on brown hares and each trip I make into hare habitat has the promise of producing new images.

To persevere means you will also have to be patient. You may need to wait long periods between bouts of action, but you must always be ready to react. If you take your eye off the ball you could miss the fleeting opportunity you were waiting for. For example, I have sat patiently, hour after hour, waiting for a dive from a fishing osprey in specifically placed hides. At times the action might be fast and furious, but then hours might go by without a visit. It is imperative to be always peering skywards through the hide, otherwise you might miss a dive that's all over in seconds.

Perseverance and patience can be rewarded by planning. Researching your subject, working out the direction of light, the best time of day and locations will all save time and get you one step closer to capturing those dream images. By planning where to locate yourself for the best light and potential for action, you will help avoid leaving anything to chance.

Follow the three Ps of perseverance, patience and planning to avoid leaving anything to chance





Many species exhibit signals that, once learned, are invaluable in capturing eye-catching shots. This shot of an osprey with a trout was taken in Scotland



## 8 Learn your subject's behaviour

Knowing what your subject may do at a given time will allow you to react and be in the right place at the right time. This is partly planning but there is no substitute for being out in the field, watching and learning. I cut my teeth as a birdwatcher in the Medway Valley in Kent, and as a teenager I spent hours observing in the field. This has given me a feel for my

subjects – an asset I believe has been invaluable in my career. Read as much as you can, and if you have come to wildlife photography through photography then embrace being out in the field.

Animals give vital signs as to what they might do next. It's clearly an asset if you know you are getting too close and in imminent danger of having your subject turn tail and run or fly. Equally, you will be prepared if a

subject is about to do something worthy of a good shot. Ducks and swans provide vital clues when they are about to take off – they bob and shake their heads and face into the wind. Similarly, a bird of prey will normally ruffle its feathers before taking to the air.

Birds and mammals have what is commonly referred to as a 'circle of fear'. If you cross a certain distance around them, they will look to flee or simply run or fly

away. This can be the difference between a good portrait and a shot of a disappearing rear end. For example, a grazing deer may stop and look your way as you approach, and if it resumes feeding after a pause you might be able to move closer. However, if the deer moves position and keeps staring, chances are it is on the verge of fleeing. Being able to read these subtle nuances in behaviour comes with experience.



## 9 Never be afraid to experiment

'The judges won't like that'. I have heard this said on numerous occasions referring to camera club competitions, when I've suggested to a client on a workshop to shoot a subject in an abstract way. It seems that many photographers are afraid to experiment, but it's often these images that remain in viewers' minds, so never be afraid to try something different. It is tempting to go for the safe, well-lit, sharp portrait or super-sharp action image, but sometimes shooting motion-blur images or

taking part of a subject may result in a more artistic picture.

A few years ago I sat in a hide photographing black grouse lekking (engaging in a mating display). As I peered out at all the males strutting their stuff, I was aware I was creating images that were similar to many I had made before. So I set out to shoot an abstract that would still tell the story of conflict but would be a more artistic interpretation. The result was an image that was Specially Commended in the Wildlife Photographer of the Year competition (left).





## 10 Be ready for the unexpected

I am always ready for action whenever I am out in the field. My camera is switched on and the correct exposure dialled in so I am able to grab the camera and shoot within a second or two. You never know when an interesting bird or other subject might suddenly

appear. Wildlife subjects can sometimes do the most unexpected things, so it's vital to be alert and ready. I have seen many other photographers, as well as myself, miss plenty of shots through doing too much reviewing of images on the back of the camera (chimping) when we should be alert for action.

I like nothing more than being out with my big lens mounted on its tripod over my shoulder ready for anything. I never know what I might end up photographing on any given day, but being ready may mean bagging the potential best shot of the day, as opposed to fumbling around and enduring an agonising missed opportunity.





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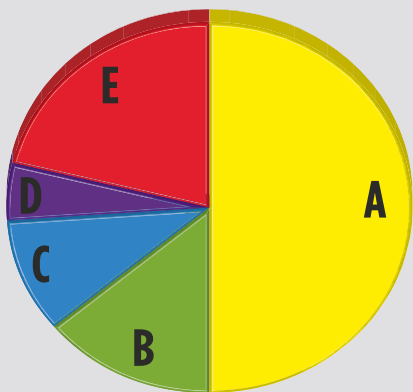
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### In AP 25 April, we asked...

Would you ever consider buying a converter lens?

### You answered...

<b>A</b> Yes, if the quality was good enough	<b>50%</b>
<b>B</b> Yes, even if the quality was sacrificed, they are an affordable option	<b>14%</b>
<b>C</b> No, I wouldn't accept a drop in quality	<b>10%</b>
<b>D</b> No, they compromise on the handling of a lens	<b>5%</b>
<b>E</b> No, I simply don't need one	<b>21%</b>

### What you said

'Yes, in fact I got some just the other day that hook onto a phone's camera lens. The macro adapters get you quite close, but might be a bit mediocre for some'

'Probably never again. I once bought a wideangle converter for a video camera and was very disappointed with the poor-quality results'

'I have a couple. One is a Jessops version that can either be a wide converter or a close-up lens and in either guise it's rather poor. The other is a semi-fisheye video converter, which does quite a reasonable job provided I use it purely as a circular fisheye'

'I've used both front and rear types. Sometimes they're the only fix in an awkward situation. There are some awful specimens of both types out there, although there are also some very good ones. You won't know which is which until you take pictures with them'

'Yes, if they let me do something I couldn't easily do otherwise, at reasonable quality'

### This week we ask

If you have a DSLR, do you also have a compact system camera?

Vote online [www.amateurphotographer.co.uk](http://www.amateurphotographer.co.uk)

## Guess the camera



Every other week we post a photograph of a camera on our Facebook page and all you have to do is guess the make and model. To guess the make and model of this camera (above), head over to [www.facebook.com/Amateur.photographer.magazine](http://www.facebook.com/Amateur.photographer.magazine). Forum members can also enter via the Forum.



The 25 April issue's cover is from 25 May 2013. The winner is Adrian Mills from East Sussex, who guessed correctly and was drawn at random.

# Inbox

Email [amateurphotographer@timeinc.com](mailto:amateurphotographer@timeinc.com) and include your full postal address

Write to Inbox, Amateur Photographer, Time Inc. (UK), Blue Fin Building, 110 Southwark Street, London SE1 0SU

## LETTER OF THE WEEK

### Storage problem for prints

As a long-time reader of *Amateur Photographer*, I am well aware of the last two editors extolling the virtues of making prints from our digital images for future generations. This I strongly agree with.

I still have most of my negatives since I seriously took photographs back in 1962, and have thousands of black & white and colour prints in boxes. Apart from deleting out-of-focus images, I still have all my digital images, from which I have several thousand prints ranging in size up to 20 x 30in. As I only have a modest house, I have an imminent storage problem.

Most of my personal work has been documenting British humanity, which includes street photography together with environmental portraits of strangers. Obviously I have amassed valuable historical photographs, but what do I do with them? Apart from the V&A Museum of Childhood buying some of my photographs, and accepting a donation of almost 200, all I can see happening to my work is that it will end up in a skip. What organisation is

going to want photographs of Middle Britain taken over six decades? I am not like David Bailey and Don McCullin, who, by a twist of fate, became famous and their work can command thousands of pounds.

It's all very well preaching that we should make prints, but once they have been printed and looked at, they just end up in boxes to be forgotten and dumped. Once we have made the wonderful historical prints from our digital files, what does AP suggest we do with them for future generations? **John Heywood, via email**

**Many towns have museums that may be interested in photos of the local area, and some of these may even have digital archives. Similarly, the local council may have a historian, or at least an archive, that could be interested in some of your images. Sadly, many images will probably be lost, although as the recent find of Vivian Maier's images shows, there is always hope that they may form part of a significant collection – Richard Sibley, deputy editor**



## Win!

With ultra-fast performance, the new Samsung 16GB EVO SD card, Class 10, Grade 1, offers up to 48MB/sec transfer speed and has a ten-year warranty. [www.samsung.com](http://www.samsung.com)

## SAMSUNG

### Nikon lens error

I read that the Nikon 1 system had failed to capture the imagination of the enthusiast photographer. No kidding! I've been using top-end Nikon DSLRs for about eight years, always buying second-hand, one generation behind the latest, so I can afford them. However, I received some money unexpectedly, so I decided to buy a new V1 CSC.

About one week out of warranty, my 10-30mm lens started to report 'lens error'. With no warranty support, getting a professional repair on a £150 lens made no sense. So I opened it up and discovered that a flexible cable had snapped. It had been fouling the lens-collapse

mechanism. I wrote an impassioned letter to Nikon, hoping to get hold of a replacement cable. Customer services directed me to the UK spares team, who I don't think replied.

My V1 has been sitting, unused, on my desk for over a year now, and I regret spending so much on it. I don't think Nikon understands its customer base for this range – I want the quality I'm used to, and I want to deal with people who care as much about photography as I do. The Nikon 1 range is clearly positioned as an expensive toy. It won't take off until Nikon addresses the quality – and gets rid of some



The Nikon 1 V1 compact system camera was launched in 2011

of gimmicks such as motion snapshot.

**Ant Smith, via email**

**This is an issue we are aware of and a service advisory relating to this lens has been issued. While I can't comment on the customer's**





Phil Taylor's DIY upgrade to his Panasonic Lumix DMC-GM1 and an image of lichen taken with the camera

general frustration with his V1, I can confirm that we can repair his lens (even though he has attempted a repair himself), free of charge, and he can use the free inbound service to us –**Jeremy Gilbert, Nikon**

## DIY light success

Intrigued by your feature on a DIY macro light (AP 18 April), I had a go and for just £12 got excellent results.

Encouraged by this, I decided to try a DIY upgrade to my Panasonic Lumix DMC-GM1. However, every time I used the GM1, I accidentally altered the settings as it is difficult to hold the camera without touching the buttons. I added a cover from scrap materials that can easily be flipped aside with a finger to access the buttons and it works a treat. The cover is also thick enough to hold my thumb off the touchscreen. No

more lost shots. Panasonic is welcome to copy my idea. **Phil Taylor, Somerset**

I'm glad the macro light idea was useful. As for your solution, it is great that people spend time making their own kit work in the way that they want. If anyone else has customised or made their own photo equipment, please send us a photo – **Richard Sibley, deputy editor**

## The point of printing

I must take issue with Roy Sealey's *Viewpoint* (AP 2 May). I back up my photos to two hard drives and the computer, so the chances of all failing at once are minimal. They are also either on my website or Flickr. The cost of printing, say, the 500 football shots I took last week would be astronomical, and printing is no guarantee as I have shots

taken and printed in the 1970s that have faded over time. **Nigel Cliff, via email**

I think the point was to print photos of precious memories, family and friends – not 2,000 images of sunsets. A good print should last around 100 years, which should give the next generation time to reproduce any images they feel have value.

Also, while we all think that multiple backups is a perfectly fine solution, a fire or flood could mean that all backups are wiped out in one go. And what about a solar flare? There are those who think a big enough flare could cause enough electromagnetic radiation to wipe all hard drives. I would rather that my photos were all printed as well as being backed up – **Richard Sibley, deputy editor**

## In next week's issue On sale Tuesday 19 May



# Entry-Level DSLRs

We pitch the Canon EOS 1200D, Nikon D3300 and Pentax K-S1 against each other to see which is the best for those starting out

## Creative lens distortions

Jake Hicks reveals how he uses his Lensbaby, and some clever tricks, to take striking images

## Lensbaby Velvet 56

Designed to be flawed, we review the new 56mm f/1.6 lens from Lensbaby

## Sony World Photography Awards

We take a look at the winners of the Open and Mobile categories

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# Master of minimalism

Armed with a humble smartphone, the new master of minimalism is proving why you don't need expensive kit to capture world-class images.

**Yener Torun** talks to **Natalie Denton**



Pacman Goes  
Cannibal, 2014



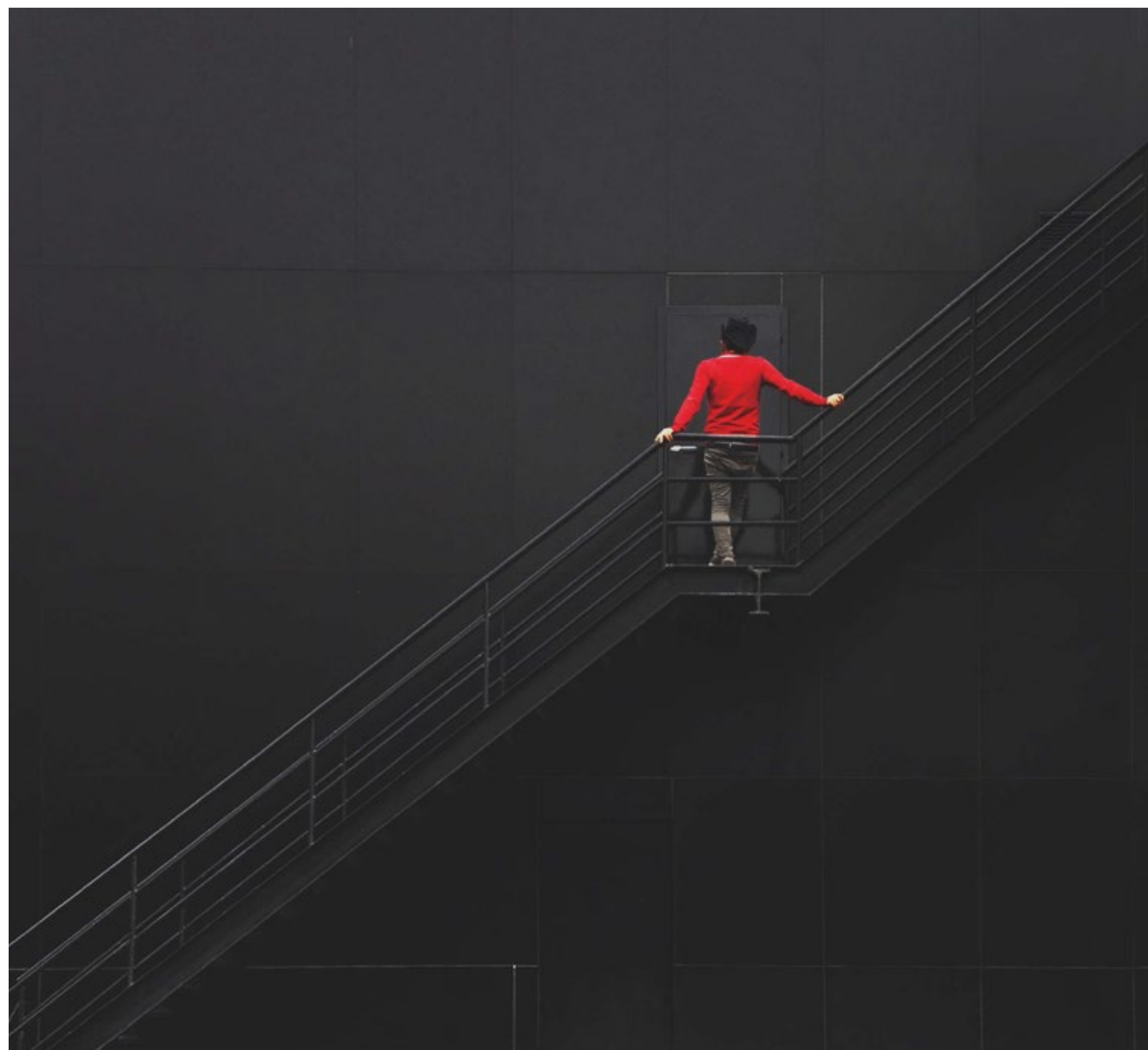
**W**hen you think of Turkey, a noble and ancient land set against celestial mountain ranges and a trio of exotic seas, the country's tropical beach resorts and distinguished Ottoman and Byzantine architecture come first to mind. But Turkey is currently undergoing a cultural revolution. Bold and brash architectural designs, cutting-edge contemporary structures and controversially coloured buildings are popping up in pockets all over its urban jungles, jump-starting the world's conception of what the country has to offer.

Until now, this revolution has been a slowly unfolding secret in this historic gateway linking Europe and Asia, but one man is using his passion, determination and smartphone to lift the lid on his country's monumental makeover.

Yener Torun, far from being a professional photographer, is a qualified, experienced and fully fledged architect. However, his minimalist masterpieces taken on his everyday Apple iPhone 5, and later an iPhone 5C, have propelled him with astonishing force into the photography world, winning praise, not to mention legions of fans, across the world. His regularly updated Instagram account offers a virtual window onto Turkey's most fascinating and colour-clad properties.

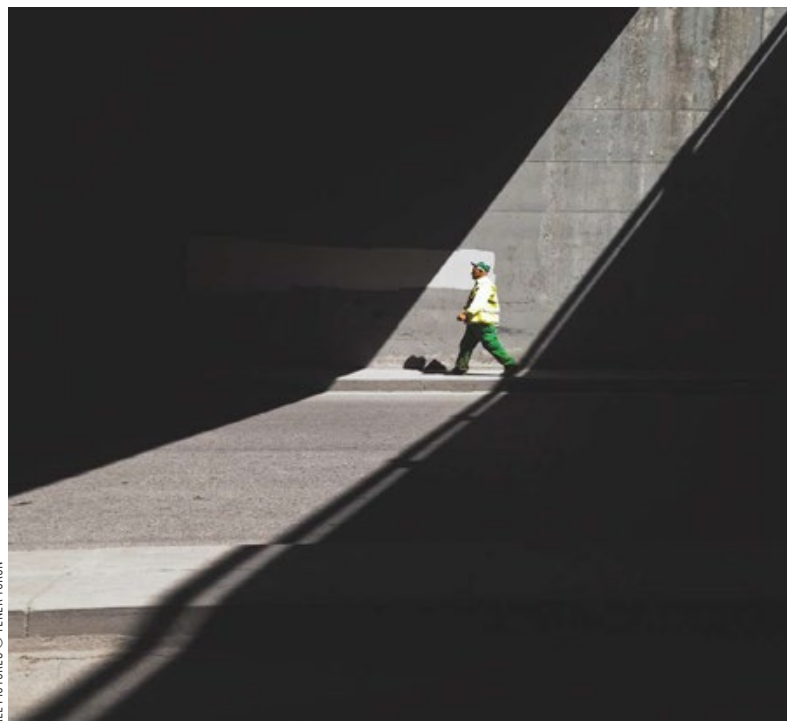
'I had no serious experience in photography before registering on Instagram,' reveals Yener, who has since accumulated an incredible 50,000 followers.

'I used to take photos on my vacations, but I never adopted any sort of style. They were just regular



**The Black Mirror, 2015**

**There's Still Green, 2014**



ALL PICTURES © YENER TORUN

## **'Yener's minimalist masterpieces taken on his everyday iPhone have propelled him with astonishing force into the photography world'**

holiday photographs that you see every day on Facebook. Recently I realised that Istanbul was still being portrayed one-dimensionally in photography. I love the usual images associated with Turkey, but in my own photography I wanted to do something different.

'Istanbul is famous for its history and exoticism, but it is also a modern and developing city and I believed that a different approach would provide a better understanding of it. I wanted to show less well known parts of it, so I started digging around in every corner to unearth its gems.'

### **Treasure hunt**

Like a slightly obsessed Art Nouveau architectural Indiana Jones, Yener became passionately driven in uncovering these rainbow-coloured edifices to share with the world, but the 32-year-old architect's biggest challenge was finding them in the first place. 'I love it – it's like a

treasure hunt and that makes my work more interesting to me.

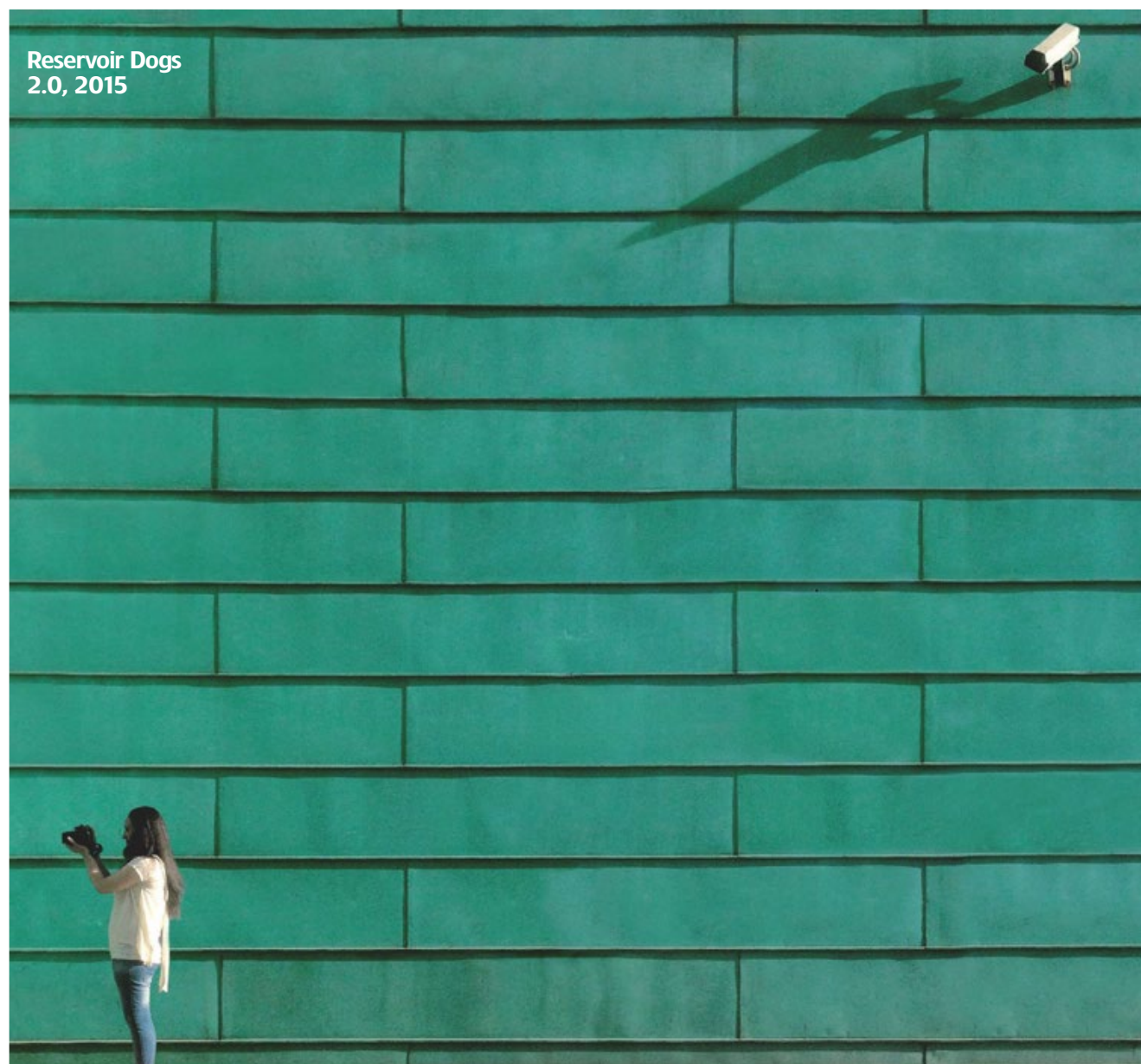
'Istanbul is a vast city but it's full of grey and dull buildings, so I spend most of my time wandering around neighbourhoods I've never been to before. Then, after hours of walking and searching, finding what I want is a real victory.'

Yener has been photographing the city for two years and claims that his usual stalking grounds tend to be far from the central and historical areas of the city. 'I visit industrial areas or developing neighbourhoods to find the modern lines, geometric patterns and vibrant colours I need,' he says. 'I usually visit these places more than once and sometimes at various times of the same day to observe the different light and shadow effects, in order to see how I can use the background differently.'

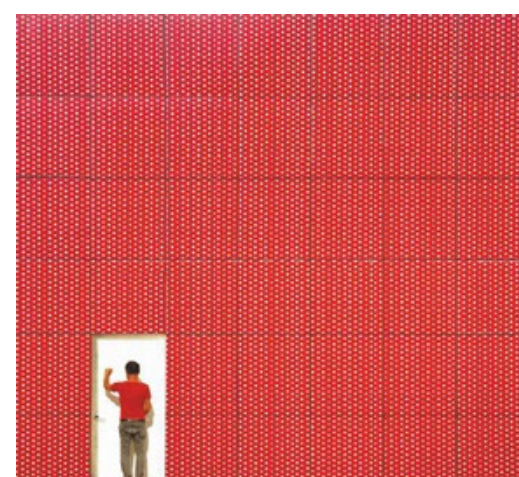
Yener, who was born in Turkey and still based there, might not have the 'typical' camera set-up







**‘My discovery in the city includes self-discovery too. This makes my work more layered’**



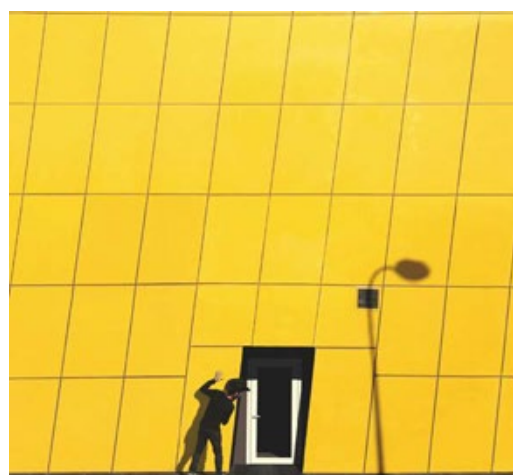
➤ of a professional, but his images consistently reveal his photographic eye and a strong sense of style that some people take a lifetime to develop.

‘I photograph an alternate universe with its own laws and that helps to abstract my photos from the reality, which is what makes my photographs more personal than they look.

‘My discovery in the city includes self-discovery too. This makes my work more layered than it looks at first glance, while keeping the intention to show the unknown, modern and colourful side of Istanbul. In essence, it opens a window into my inner world, and it provides a connection between me and my viewers using the colourful treats of the city as interfaces.’

### Colour and pattern

The majority of Yener’s work resoundingly presents the three overriding conventions of minimalist photography, successfully rendering the main subject small by utilising expansive backdrops, while incorporating dominant areas of highly saturated colour and pattern. Minimalism is



derived from the reductive aspects of Modernism, first emerging in the arts after the Second World War and rising in popularity in the 1960s and early 1970s, particularly in America.

In the case of photography, the genre marries well with modern architecture thanks to the influence of bold colours and repeating patterns, and as Yener has cunningly discovered it can be pursued with minimal equipment.

‘I always try to use geometry and colours in the most effective way,’ he says. ‘I believe colour has a positive effect on people and therefore my photos hopefully have a positive



**Top right: Vitamin C, 2015**

**Middle right: The Applicant, 2014**

**Above right: Your Protector Is Coming Home, 2015**

**Above left: Fearless, 2014**

effect on the viewer. Colour inspires me to compose fun photographs, so I pay attention to colour coordination between the human element and the background. The way the colours interact with the background is usually different than anyone would expect, and it’s this colour coordination that makes the image more effective and appealing.





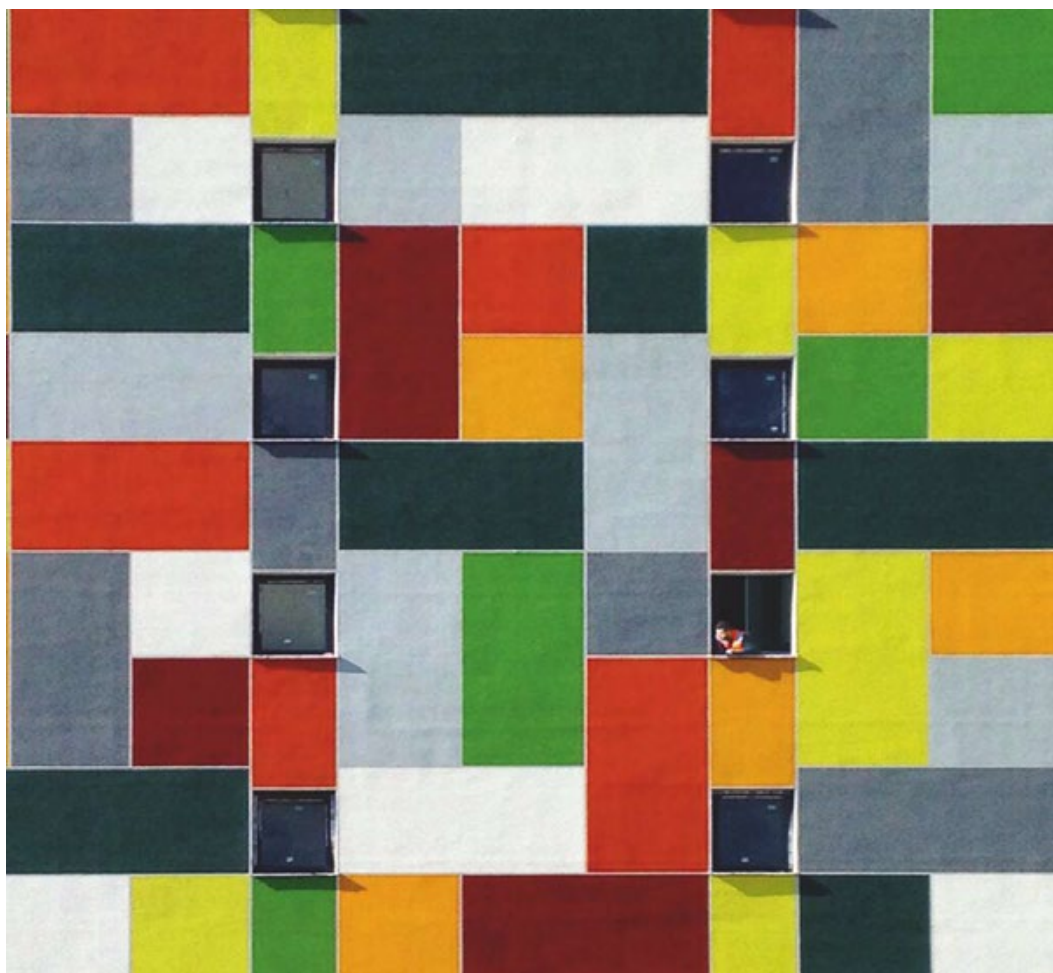
This image:  
Alternate Route,  
2015

Bottom left:  
This House Is A  
Circus part 3, 2014

Bottom right:  
You Can't Hide,  
Boy, 2015







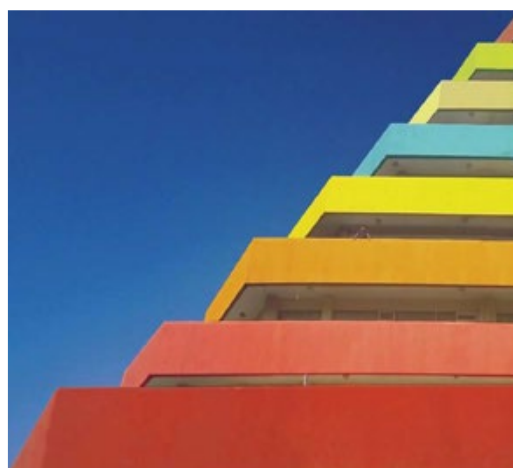
## 'I use architectural elements in most of my photographs. I find everything I need in architecture: colours, patterns and geometry'

➤ 'My images have their own physics and rules, which I define using geometry and colours, and the people in my pictures act according to these rules. I like to focus on only the things I want to, which makes the image more powerful, if composed well. It is a direct and strong approach, as in my opinion minimalist photos should be peaceful for the viewer to look at.'

Post-shoot, Yener tinkers with his haul using Photoshop. He learned to use the software while studying to become an architect. 'I sometimes adjust the light and boost the colour settings to make my photos more vibrant, and I also edit perspective to make the subjects straighter, he adds.'

So what is it that Yener has that others don't? The 14-year Istanbul resident believes it's his love of architecture and experience in this industry that has stemmed a level of insight other photographers can't compete with.

'I use architectural elements in most of my photographs,' he says. 'I find everything I need in architecture: colours, patterns and geometry. The education I have had and my work experience as an architect have helped me to see many details easier than anyone else, for sure. Also, as I have worked



in Istanbul for years, I know about most of the new projects and that makes it easier for me to find the buildings I'd like to photograph.'

While his humble camera phone has got him this far, Yener says he's reached a point where he's realised his potential and is relishing the possibility of becoming a professional photographer. Not only has he stepped up his kit, recently investing in a Samsung NX30 and appropriately wide 18-55mm lens, but he has also quit his day job.

'Lately, I've started believing that I can work as a full-time photographer,' he says. 'I used to shoot only on weekends, but lately I shoot almost every day. I quit my day job a few months ago and now I mainly focus on my photography. If







**Top left: Colour Drunk, 2015**

**Middle left: Living in a Rainbow, 2015**

**Above: Divergent, 2014**

**Left: Hi, My Name Is Yener And I'm A Symmetry Addict, 2015**

**Above right: Standardization, 2014**

To see more of Yener Torun's images, visit [instagram.com/cimkedi](https://www.instagram.com/cimkedi)

the weather is good, I go out early in the morning and I shoot until dusk.'

It's this frequency of shooting, editing and sharing new images every two days that has helped cultivate Yener's fan base, taking his work viral and sky-rocketing his profile into the big leagues. 'They love seeing a different side of Istanbul,' he explains. It's a side even some long-term residents aren't aware of. It's refreshing for everyone, and presenting this less well known side with a decent style makes my photographs more appealing.'

### Further afield

As well as shooting in Istanbul, Yener's passion has taken him to other cities in his native Turkey, including his birthplace of Tokat



and hometown Marmaris, as well as venturing further afield to European architectural hot spots such as Vienna and Prague. 'Instead of targeting certain buildings, I'd like to visit cities such as Barcelona, Amsterdam, London, Paris and Copenhagen, and some other popular places, to discover their lesser known sides,' he adds.

'I am sure all these cities have many hidden treasures waiting to be discovered by me. My plan is to go there and breathe in their atmosphere and experience the streets by walking them, and then I will see what I can do.'

'One day I hope to sell prints of my images via my upcoming website ([yenertorun.com](http://yenertorun.com)) and publish a photo book about Istanbul. I would love to display my work in an exhibition too, but since I am very new to photography I don't yet know how these things are arranged.'

'I want to continue making similar series of other cities all around the world, but as I'm reliant on my own financial means, creating a series for each city will take a long time. But I am looking for sponsors and partnerships to speed up the process.'

Digital technology has done for photography what *The X Factor* has done for music. Traditionalists argue that it's diluted the integrity of the medium, but it's unquestionably blown open the doors to what was once an exclusive club, allowing enthusiasts of all ages, backgrounds, budgets and abilities to have a go. What's more, the giant strides made in smartphone technology have given casual shooters the tools, albeit basic ones, to develop their photographic eye.

Perhaps smartphones, and even his new CSC, are considered 'modest equipment' to the seasoned shooter, but if Yener's story teaches us anything, it's that you don't need expensive cameras to take groundbreaking photos and make a name for yourself.



## 5 SHOOTING SECRETS

Whether you're using a smartphone or a DSLR, Yener's secrets to shooting minimalist masterpieces are sure to help you

### Rules

'I've always loved simplicity and almost all my photos are composed using geometry: symmetry, strong lines, patterns, which help to define the borders of the frame,' he says. 'Just look at a random selection of photos from my gallery and you'll see these rules jump out at you.'

### Light

'I tend to only shoot on sunny days. The reason I do this is because I need strong light in order to accentuate the colours in front of me.'

### Shoot, rinse, repeat

'If the shot is candid, I take two or three and select the best one. But if it is staged, I sometimes take up to ten photos to try to work every possibility. If I don't like any of the images I've captured, I'll keep revisiting the place until I get what I want.'

### Location, location...

'I visit every location at least twice. First I discover a place I like, and then I revisit when I decide how to use it.'

### Create your own style

'When I find a place I want to use, I close my eyes and imagine the scene in my mind. And that scene usually happens to be weird and funny.'





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Photographs by Tony Hurst



### NIKON M RANGEFINDER CAMERA - A VERY EARLY EXAMPLE

In 1948 Nikon's very first camera, the Nikon Model One, was destined for only a brief production run. Its 24 x 32mm format proved unpopular with the GHQ of the Occupation Forces under General MacArthur, who would not allow the camera to be exported to the USA because the 24 x 32mm format was not compatible with Kodachrome slide mounts. It was replaced by the Nikon M (the M standing for mutatio – Latin for change or alteration). The M used a 24 x 34mm format, but it was still smaller than the 36 x 24mm employed by Leica. In addition Nikon added the letter 'M' before the serial number which is the only time they ever identified one of their rangefinder cameras. According to factory records, the first Nikon M was camera M609760 assembled in August 1949. The camera is marked "Made in Occupied Japan" on the base, a sign of the times following the 1945 Armistice and the US occupation of Japan which lasted from the summer of 1945 through Spring 1952. The number of this very rare example is M609769, which is possibly the 10th production camera! It is complete with a 5cm f/2 Nikkor-HC collapsible lens.



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# LOCATION GUIDE

# Martinsell Hill

As one of Wiltshire's

highest points, this hill offers spectacular views.

**Mark Bauer** reckons it's a hidden gem



## KIT LIST

### ▼ Lenses

Both wideangle and telephoto lenses are handy – wideangles for making the most of foreground interest and panoramic views, and telephotos for the more distant points of interest.



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### ▼ Graduated filters

Grads will tone down bright skies at sunrise, so you don't blow the highlights. Use the soft-edged ones if you have foreground interest that breaks the horizon.



### ▼ Polariser

Polarisers reduce surface glare and restore natural colour saturation, and are essential filters for making the most of the spring colours. Shoot at 90° to the sun for maximum effect.



APART from the obvious hot spots such as Stonehenge and Salisbury Cathedral, the county of Wiltshire doesn't seem to get much attention from photographers. This is a shame, because it is a beautiful place: a quintessentially English landscape filled with rolling hills, chalk streams and woodland.

One of the county's hidden gems is Martinsell Hill. At 948ft, it is one of the highest points in Wiltshire and offers a panoramic vista of the Pewsey Vale. With good viewpoints all around, the most photogenic spot is probably on the eastern side, where there are the remains of a Neolithic hill fort. From this spot there are far-reaching views and foreground interest provided in the form of a lone Scots pine and the ridges of ancient earthworks.

Martinsell Hill is just outside Marlborough. From Marlborough, take the A345 towards Pewsey. After a couple of miles, turn left onto an unclassified road signposted towards Wootton Rivers and Clench. About a mile and half down the road, there is a small car park on the right. Park here and follow the well-marked footpath along the ridge of the hill. It's just a ten-minute walk to the main viewpoints, and as the car park is near the top of the hill there is only a gentle slope to contend with on even ground.

There's far more to this location than wideangle views, though, as there are plenty of distant details around which to base compositions, such as trees in the rape fields or the tops of hills in the mist.



Ridges of the earthworks make superb lead-in lines **Canon EOS 5D Mark III, 24-105mm, 1/13sec at f/11, ISO 100, 2EV soft grad**



## Mark Bauer

Mark Bauer has been a full-time landscape photographer for more than ten years. He is based in Dorset and takes his inspiration from the beauty of the surrounding landscapes in the south-west of England.  
[www.markbauerphotography.com](http://www.markbauerphotography.com)



## Shooting advice

### Time to visit

MARTINSELL Hill looks good at any time of year, but winter can be great, especially if there is a heavy frost or a dusting of snow on the hills. However, my favourite time is spring, as there are often fields of rape in the Pewsey Vale below, which add splashes of colour to the distant landscape. After a clear, still night, there's also the possibility of low-lying mist in the valley to add atmosphere to your shots.

Because of this and the angle of sunrise, early morning shoots tend to work out best in the spring. With a wideangle lens it's possible to capture the rising sun and the lone pine together in the frame. Alternatively, there is a bench overlooking the valley that provides excellent foreground interest for a wideangle shot. Shooting towards the sunrise means there will be high contrast in the scene, so graduated filters are a must. If the tree is foreground interest, use a soft grad if possible so that the transition line doesn't appear too harsh.

If you have a longer lens, such as a 70–200mm, it's worth putting it in your kit bag. It's only a short walk and the weight is worth the extra compositional possibilities.

### Food and lodging

JUST down the road from Martinsell Hill is the charming market town of Marlborough, with numerous cafés, restaurants and pubs. If you fancy a fry-up after a dawn shoot, try Appleby's in Hughenden Yard just off the high street. If you're coming from further afield, there are plenty of B&Bs to choose from in the town, or if you'd prefer a hotel the Castle & Ball is centrally located and full of character.



Use longer lenses to pick out patterns in the fields below. This works particularly well when there is a light frost or mist in the valley  
Canon EOS 5D Mark III,  
70–200mm, 0.5sec at f/11,  
ISO 100, 2EV hard grad



A lone pine tree on the top of the hill makes great foreground interest  
Canon EOS 5D Mark III,  
16–35mm, 1/10sec at f/16,  
ISO 100, 3EV soft grad



# Toil & Strife

**Kevin McElvaney** tells **Gemma Padley** how and why he photographed the men who mine sulphur along the slopes of a volcano in East Java, Indonesia

It's not your average subject – a sulphurous volcano in the Indonesian province of East Java – but for 27-year-old Kevin McElvaney, Ijen, which stands at more than 2,500 metres high, was a photographic challenge too good to pass up. The documentary photographer, who lives in Hamburg in northern Germany, came across the volcano after watching a documentary film about the veteran photographer James Nachtwey. In the 2001 film *War Photographer*, Nachtwey is seen photographing the Ijen volcano, situated towards the east of the region, battling, as McElvaney says, the heavy clouds of sulphur that almost engulf him.

From the volcanic sulphur mine at Ijen (one of the few remaining in the world), workers collect the hardened yellow sulphur, which they sell to local industries. The sulphur is used in matchsticks and to bleach sugar, among other purposes. Retrieving the substance from the edges of the volcano's crater is a dangerous, difficult job, and it isn't well paid, but despite this, many persist, lugging up to 90kg of sulphur down the mountain at a time before returning for the next load.

Intrigued by what he saw in the film, and not a bit put off by the inevitable challenges of such a trip, McElvaney, a former business administrator who picked up a camera four and a half years ago,

decided to take a look for himself. His reason was initially an aesthetic one. Given that Nachtwey images are in black & white, McElvaney wanted to see what the yellow landscape (caused by the cool and hardened lumps of sulphur) would look like photographed in colour. In October 2014, McElvaney packed his bags and set off for Ijen to find out for himself.

The journey was long. It comprised three flights, a ten-hour train ride and a couple of motorcycle journeys – but eventually the young photographer made it to the base of the volcano. Laden with his camera equipment and supplies, there was only one thing for it – to trek up the side of the volcano. With help from Imam, a former miner who stopped working at the sulphur mine in Ijen six years ago, McElvaney traversed



ALL PICTURES © KEVIN MCELVANEY





the rocky terrain and spent two days photographing the workers as they went about their daily business.

‘It was far more dangerous than I’d expected and at times I asked myself why I was doing this,’ says McElvaney. ‘I thought it was a rumour that the workers carried 80 or 90kg of sulphur, but when I got there, I realised it was true.’ It takes the workers around two hours to climb down the mountain with their hauls, which sell for around seven cents per kilogram, he adds.

### The project

McElvaney’s images show many aspects of the daily grind that the workers endure as they toil tirelessly against an imposing volcanic backdrop. We see individuals hauling heavy loads through thick smoke and the scars on the back of a worker, caused by the labour-

intensive nature of the work, but also a man pausing for a brief moment of rest, surprisingly, with a cigarette. McElvaney explains how strong winds made photographing all the more difficult, and describes how the volcanic gases would shoot up from naturally forming vents known as fumaroles – not to mention the density of the acrid smoke, which was often unbearable.

‘Usually, there would be between 100 and 200 people working, I was told, but due to the poor weather conditions there were just 12 on the days I was there,’ he says. ‘From my research, I’d expected the volcanic gases to rise on one side of the crater, but these winds were [coming across], which is why many of the images look smoky.’

A gas mask protected him against the worst of the noxious gases, but it was not completely leak-proof. ‘I

**Above: A worker tries to find a safe way down avoiding the hot pipes. Sometimes people are burned by the hot steam, gases and fire. The pipes cap the fumaroles of the volcano and channel the gas down to the barrels**

**Far left: Six years ago this man (Imam, 38) decided to stop mining for sulphur, but after all these years you can still see the toll it has taken on his body**

was coughing for four weeks after I returned from Indonesia,’ he says. ‘At the time, I had a long beard so the mask didn’t fit properly. Sometimes the smoke was so intense we had to lie on the ground for a few minutes until the wind eased. It burns your eyes and is pretty warm. Some of the workers even passed out.’

Undaunted, McElvaney persevered, and managed to capture several documentary shots and landscape images. Ordinarily in his photography, he veers towards environmental portraits and tries to get to know his subjects, he explains, but, given that talking with his subjects was difficult in these conditions, he decided that a photo essay with a range of shots would be a more honest way of telling the workers’ story.

‘I always try to come back







**Above: With full baskets, the miners walk along the steep crater walls very slowly and stop several times**

**Left: The miners use steel bars and other simple tools to cut off chunks of the solid sulphur**



from any trip with personal stories and portraits, but the bad conditions made it near impossible to speak to the workers,' he says. 'And even when the conditions improved, they wanted to get on with their work and not spend time talking with me. Since I wasn't able to photograph them [in the way I wanted], I had the idea of photographing in more of a documentary way, which meant following them as they worked and showing what they do.'

### Tricky conditions

McElvaney, who has also travelled to Ghana, Israel and South Africa with his photography, explains that

he needed to have a robust 'dust-proof' camera that could withstand the tricky shooting conditions, (he used a Nikon D800), and, since he was unable to change his lens due to the dusty, smoky conditions, stuck to using a fixed-focal-length 28mm lens. 'I had thought about changing my lens, but forced myself to use only this optic and instead move closer to the people,' he says. 'It's easy to make shots from a distance and stay in an easy environment, but...' he trails off. 'Plus, I usually shoot with this lens.' He also had a Polaroid camera and took pictures using this to show his subjects, 'as a way of saying thanks'.

Reflecting on his experiences in

East Java, McElvaney has some sound advice for others who may have plans to photograph in difficult regions. If possible, he says, link up with a guide who can help you with the logistical and communication aspects of the trip. Body language gets you so far, he says, but don't underestimate the importance of a native speaker.

'Local contacts are very important, especially if the conditions become increasingly difficult [to handle] or aren't what you had expected,' he adds. 'To have people who can translate the language or introduce you to others is a big advantage.'

At present, McElvaney is working on an edit of images from a recent trip to Israel and also hopes to visit Nigeria, Greece and the Ukraine to work on projects in the near future.

'I often dislike my images immediately after I've returned from a trip, and it takes me two or three weeks to make an image selection,' he confesses. 'I self-fund the projects I do, and have another job [to support myself] as I don't want to be forced to work on a story just to make money.'

'I see this as a phase in which I am investing in my photography career,' he adds. 'I would love to be the photographer who is booked to do an assignment because the person who commissions me likes my visual language.'



Kevin McElvaney is based in Hamburg, Germany. Kevin's previous projects include documenting the pickers at Agbogbloshie's e-waste dump outside of Accra, Ghana. To see more of Kevin's work, visit his website at [www.derkevin.com](http://www.derkevin.com)







# Where is the best place to buy a camera?

Who can provide you with the right information, the right products and at a good price? The **Good Service Awards** aim to answer these questions by presenting photography retailers who stand out from the rest with an award. From this you can work out where to shop for your photography equipment and find out where you will be treated as a valued customer.

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# Reader Portfolio

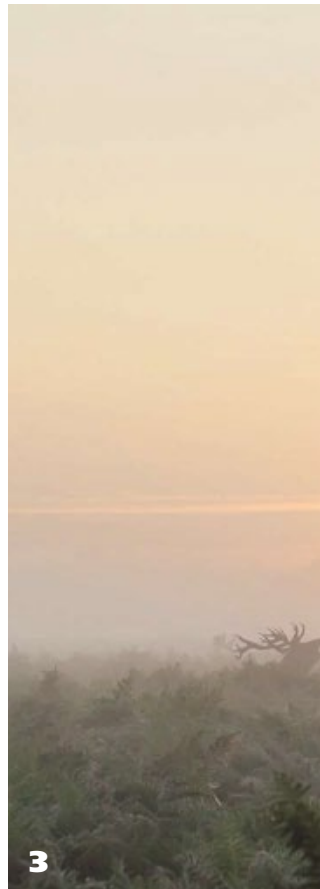
Spotlight on readers' excellent images and how they captured them



**Up for Breakfast**  
**1** This was taken in Richmond Park during one of Duncan's first dedicated photography outings. By exposing in just the right way, Duncan has made sure to retain some subtle detail in the deer  
Canon EOS 1000D, 55-250mm, 1/250sec at f/32, ISO 800



**Frozen Fern**  
**2** Duncan shot wide open and at full zoom to create a shallow depth of field and also to create a very faint bokeh effect with the dappled light  
Canon EOS 5D Mark II, 24-105mm, 1/320sec at f/4, ISO 200



## Duncan Herring, London



Duncan's image 'Web Spinners and Deer Stalkers' was featured as our Online Picture of the Week in AP 22 November, 2014. That same image went on to win the Breathing Spaces category in this year's International Garden Photographer of the Year competition.





# HeliconSoft

## Helicon Focus Pro

Helicon Focus is designed to merge several differently focused images into a fully focused one, thus allowing extreme depth of field. You can produce sharp images in one click, retouch results with special brushes and enjoy all the benefits of state-of-the-art technology to make your images stand out

The two **Reader Portfolio** winners chosen every week will receive a copy of innovative software worth \$200. Visit [www.heliconsoft.com](http://www.heliconsoft.com)

### Submit your images

Please see the 'Send us your pictures' section on page 3 for details or visit [www.amateurphotographer.co.uk/portfolio](http://www.amateurphotographer.co.uk/portfolio)



### Burning

**5** Duncan has exposed for the blazing sunrise in order to throw the tree into a graphic silhouette  
Canon EOS 5D Mark III, 24-105mm, 1/160sec at f/14, ISO 200

### Isolation

**6** This shot is a contrast to 'Burning'. Duncan has processed the image in a toned monochrome with the intention of printing on matt paper  
Canon EOS 5D Mark III, 24-105mm, 1/80sec at f/8, ISO 125



### Bellow Through the Bracken

**3** This image was taken on the same day that Duncan shot his winning IGPOTY image. He had spotted the mist rising one afternoon and knew he had to return the next day with his camera. The silhouetted stag is a fantastic element  
Canon EOS 1000D, 55-250mm, 1/125sec at f/9, ISO 200

### Wandering Deer

**4** As Duncan says, he was lucky that the deer wandered in from the right while still keeping the tree as the central subject within the frame. The mist and foliage are a great way of maintaining depth in the scene  
Canon EOS 1000D, 55-250mm, 1/200sec at f/5.6, ISO 250





1



## Dan Park, USA



'I guess I've always been visual in my approach to making sense of the world,' says Dan. 'While driving down the highway, I sometimes pass time by visualising a scene – the lines, the shapes and perspective – and frame it in my mind.' Dan identifies his favourite subject as landscapes, particularly if they involve water, and in the future he would like to create some long-exposure photography around interesting seashore areas in Scotland and Iceland. He would also like to try his hand at portrait photography.

### Shore of the Hudson River 1

1 Dan has kept the emphasis on the warm orange glow of sunset behind the scenes. This has given the image a nice contrast of colours, particularly with the orange against the cold still blue of the frozen river  
Nikon D750, 24-70mm, 1/5sec at f/22, ISO 100, tripod, remote shutter release

2







## Shore of the Hudson River 2

**2** 'This shot was taken during sunset just when the buildings began turning their lights on,' says Dan. 'Because it was a Sunday, lower Manhattan was not as lit up. It gave the opportunity to record the orange glow of sunset on the side of the buildings'  
Nikon D7000, 50mm, 1/20sec at f/8, ISO 640, tripod, remote shutter release

## Brooklyn Bridge

**3** 'The East River flows to the left and there were melting ice chunks floating on the water,' says Dan. 'During the exposure, a boat cruised right by the frame, but due to the exposure time it almost completely disappeared from the shot. You can see the blurred streak and for some reason it also caused a lens flare to the left. Normally I would delete this, but the boat's eddy also caused the ice chunks to swirl around. It was a pleasant outcome'  
Nikon D750, 16-35mm, 25secs at f/20, ISO 100, tripod, Big Stopper ND filter, remote shutter release



## Sedona, Arizona

**4** The evening sunlight has revealed the rich red of the rock. Also, by ensuring the image is sharp, we see the stunning details  
Nikon D7000, 17-55mm, 1/50sec at f/20, ISO 400, tripod, circular polariser, remote shutter release







# Appraisal

Expert advice and tips on improving your photography from **Damien Demolder**

**AFTER**



Picture  
of the  
week

Cropping the frame  
to 16:9 reduced the  
amount of sky  
without diluting  
its presence

## **Lone farmer** Chaitanya Deshpande

Canon EOS 7D, 70-200mm, 1/250sec at f/9, ISO 250

THIS is a stunning scene, and Chaitanya has made a great job of spotting it and creating a clever composition that leads us right into the frame, from bottom left to top right. I love the light and the swirling terraces that ring the dome-like mounds in the landscape – and those clouds rolling across the scene make the perfect mysterious backdrop.

There is a person right in the middle of the frame who we don't necessarily see at first, positioned crossing over from the bright flatness of the sky reflected in some water and not quite disappearing against the hillside behind him. He makes a great focal point, but for us to find him

more quickly he needs to stand out a bit more.

Although I like Chaitanya's original very much, I think a darker exposure would have emphasised the shades and steps in the scene, and would have made the person lift off the page a little more.

We don't want this to become a ghastly pit of contrast and colour saturation, as this is supposed to be a natural-looking scene, but we could do more to show off the characteristics of the landscape.

I like the sky in the original, but feel there is a little too much of it for balance – it starts to draw us away from the foreground and middle distance. By cropping the



**BEFORE**

Chaitanya's original image, with a lot of sky taking focus from the foreground

frame to 16:9 proportions, we can reduce the amount of sky without diluting the power of its considerable presence, and create a widescreen format that

suggests something of a movie still. This is a truly wonderful shot, Chaitanya, and one that well deserves my picture of the week award.



**Win!** Send up to six prints, slides or images on CD (include the original files from the camera along with your versions on the CD). Tell us about the pictures and include details of equipment used and exposure settings. Send your images to *Appraisal* at the address on page 3. Enclose an SAE if you want them returned. The picture of the week will receive a year's digital subscription to AP worth £79.99

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**BEFORE**



Abishek's original was somewhat underexposed

# Pelican

Abishek Sridhar

Canon EOS 1100D, 300mm, 1/80sec at f/5.6, ISO 100

YOU CAN'T beat a bit of tonal contrast to give a picture some impact and make it stand out from the crowd. That contrast doesn't have to be jet black against blinding white, as even moderate tones can produce eye-catching properties, so long as those tones are far enough apart on the tonal scale. Here Abishek's middle-tone greys are almost enough against the deep shadows to make the bird jump out of the page.

While the tonal contrast in this shot is enough to produce the effect we need, the bird is somewhat underexposed, so

**AFTER**



The image after the highlights were lifted using the Dodge tool

I have given it a bit of a lift to show what it may have looked like with an extra stop of light.

It's a shame that the level of illumination lighting the bird's body didn't quite make it onto the bird's bill. I've used the Dodge tool to lift the highlights to simulate the effect, although of course it

would have looked better had the light been on the top of the bill at the time of shooting.

Abishek's picture isn't very sharp, mainly because he used a shutter speed of 1/80sec with a 300mm lens – on an APS-C body. To avoid camera shake, that kind of focal length on that body

would need a shutter speed of 1/450sec, so actually he has done pretty well, although still not quite well enough.

This is a well-seen subject that has all the potential to make a cracking picture, but the light and the technique have let Abishek down.

**BEFORE**



In George's original, the subject has become lost in the background

# Street artist

George Fisk

Canon EOS 5D Mark II, 70-200mm, 1/200sec at f/11, ISO 200

WHILE contrast can make a subject stand out from a background, in some cases it can become the subject itself and make what you are trying to show difficult to see. In this picture, George has allowed the contrast to get carried away, and the combination of deep blacks and brilliant whites hide the detail of the subject, while simultaneously drawing our attention. When our attention is drawn to an area that is actively hiding detail, we miss out on the original message.

The final result after lifting the shadows and drawing back the highlights



**AFTER**

This is an interesting scene, as the backlight picks out the back of the man's head and neck, while the direct sun reflects off the white paper surrounds of the paintings to fill in the shadow

areas of his face. The hard contrast, though, works against this nice fill-light, and plunges his cheeks into darkness.

I don't have the original file to rework the image with less

contrast, but I've lifted the shadows and drawn back the highlights to try to show how more detail can be seen when there is less contrast hiding things from the viewer.

**Damien Demolder** is a photographer, journalist and photographic equipment expert, speaker, judge and educator. He has worked in the photographic publishing industry for 17 years, including 15 years at *Amateur Photographer*. He uses a wide range of equipment, from wooden plate cameras to the latest DSLRs, and is a great fan of all products that make good photography more accessible to more people



# Accessories

Useful gadgets to enhance your photography, from phones to filters...

## Rogue FlashBender 2 XL Pro Lighting System

£85 • [www.expoimaging.com](http://www.expoimaging.com)

**Callum McInerney-Riley** tests one of the most versatile light-shaping systems on the market

Amateur  
Photographer  
Testbench  
**GOLD**  
★★★★★

### At a glance

- Lightweight and portable
- Multiple functions for different light shaping
- Packs away flat into its own carry case
- Includes a detachable softbox grid

THE NEW FlashBender 2 XL Pro Lighting System is a multi-functional light-modifying tool that attaches to a flashgun. The kit includes the FlashBender 2 XL Pro reflector – the largest reflector available – a softbox diffuser attachment for softening the light, and a strip-grid attachment (strip diffusion panel and fabric grid) for directional concentration of the light.

The reflector itself measures 254 x 280mm, and thanks to some malleable rods inside the reflector it can be sculpted to form a variety of shapes, including snoots and barn doors.

As all the kit parts are independent of each other, the Rogue FlashBender 2 XL Pro Lighting System can be packed up to a very small size. It can easily be transported on location and it fits perfectly into a 15in laptop compartment of a camera bag.

### Conclusion

If you're looking for a light modifier to use in a host of situations on location, you can't really get better than the Rogue FlashBender 2 XL Pro Lighting System. While the quality and spread of light isn't as good as a purpose-built softbox, the trade-off is very slight when you consider just how much you can do with the kit. Whether it involves using the softbox attachment and grid to softly light a portrait, sculpting a snoot from the reflector to shoot a product from above, or adding a little fill-light, the results are really impressive. The ability to adapt to each situation is the Rogue Kit's strong point, and if you're into shooting different things with off-camera flash then the FlashBender 2 XL Pro Lighting System is a brilliant accessory.



### Velcro attachment

The diffusion panel for the softbox attaches to the reflector with a Velcro fastening, making it easy to switch between soft and hard light.

### Universal fitting

The set-up fits a wide range of flash units via an adjustable belt-and-buckle attachment.

### Travel case included

A durable fabric bag is included with the FlashBender 2, which houses all elements of the kit for easy transportation.



### OPTIONAL EXTRAS

#### Rogue 3-in-1 Honeycomb grid

£30, [www.expoimaging.com](http://www.expoimaging.com)

By rolling the reflector into a tube, the 3-in-1-grid attachment can be added to the FlashBender 2 kit, which allows a very precise spotlight. It's perfect for hair and rim-lighting a portrait.



#### Rogue Universal Gel Kit

From £23, [www.expoimaging.com](http://www.expoimaging.com)

These flash gels attach to a flashgun to give users coloured light. Rogue makes an impressive collection that comes with a handy carry case. As well as the universal kit with a host of different-coloured gels, Rogue also sells gels that correct white balance.





# Tech 21 Patriot iPhone 6 case

£40

[www.tech21.com/styles/patriot](http://www.tech21.com/styles/patriot)

Amateur  
Photographer  
Testbench  
**GOLD**  
★★★★★



The case offers edge and screen protection, as well as dust covers for ports

SMARTPHONES aren't just useful for taking the odd snapshot, as there are hundreds of apps that can help you do everything from catalogue your images to finding out the exact direction of the sun. And then there are other essentials, such as navigational tools and, of course, making phone calls. This is why they're an essential accessory for many photographers.

If you're out in rugged shooting conditions, taking your valuable, and often delicate, smartphone can be risky. Thankfully, the Tech21 Patriot case should protect your phone should the worst happen. The rugged case is made of a tough, but flexible plastic, while a built-in Impact Shield cover protects your screen and the home button.

Tech 21 says it will protect your smartphone from a four-metre drop, and having dropped my phone from a 2.5-metre drop onto a wooden floor, and it surviving, I have no reason to doubt this claim.

It isn't just protection from impact that the case offers. By covering the home button, screen and various ports and buttons, the case also makes the phone splashproof. Even with the cover the touchscreen is still usable, and all the buttons that are covered are mimicked on the case so they can all still be used. The only things, obviously, not covered are the front and rear cameras, so you can still snap away.

A useful addition is a removable plastic holster that includes a sturdy belt/strap clip. I found this to be very secure on my belt, or camera strap, yet it takes just a second to unclip and release the phone.

The case adds significant bulk to what are otherwise slender phones, but if you want to protect your phone while shooting it is a small sacrifice to make. Overall, the case offers superb protection for Apple iPhone 5S, iPhone 6, iPad Air and Samsung Galaxy 6.

**Richard Sibley**



The Tech 21 Patriot case doesn't restrict the use of the camera

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## At a glance

- 24.2-million-pixel, APS-C CMOS sensor
- Canon EF-M mount
- ISO 100-12,800 standard, (100-25,600 extended)
- 4.2fps continuous shooting
- Full HD video at 30fps, 25fps and 24fps
- £600 with 18-55mm lens

# Canon EOS M3

The **EOS M3** is Canon's first compact system camera to be aimed squarely at enthusiast photographers. **Andy Westlake** finds out whether it hits the mark

## For and against

- +** Compact, portable design
- +** Excellent controls and user interface
- +** Impressive image quality
- Relatively slow continuous shooting and focusing
- No built-in viewfinder
- Limited native lens range

## Where in the range



### Canon EOS 100D

**Price** £360 with 18-55mm lens  
Canon's most compact DSLR is based around the company's stalwart 18MP, APS-C CMOS sensor, and handles remarkably well considering its size.



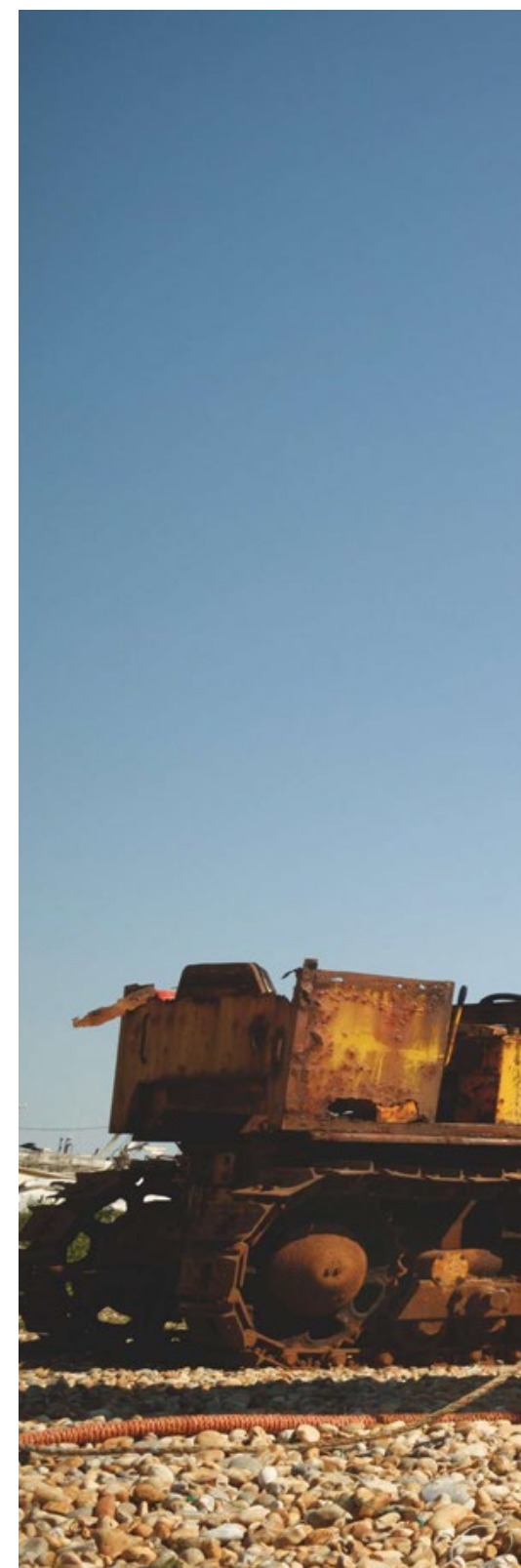
### Canon PowerShot G1 X Mark II

**Price** £520  
Canon's premium large-sensor zoom compact houses a 12.8MP, 1.5in CMOS sensor and a fixed 24-120mm (equivalent) f/2-3.9 lens.

## Data file

Sensor	24.2-million-pixel, APS-C CMOS
Output size	6000 x 4000 pixels
Focal length mag	1.6x
Lens mount	Canon EF-M
File format	Raw (CR2), JPEG, raw + JPEG
Shutter speeds	30-1/4000sec
ISO	100-25,600 (expanded)
Exposure modes	PASM, auto, scene
Metering	Evaluative, partial, spot, average
Exposure comp	±3EV in 1/3 steps
Drive	4.2fps
Movie	Full HD at 30fps, 25fps or 24fps
Viewfinder	Optional EVF-DC1
Display	3in, 1.04-million-dot tilting LCD
AF points	49-point hybrid CMOS III
External mic	Yes, 3.5mm stereo
Power	LP-E17 rechargeable Li-ion
Battery life	Approx 250 shots
Memory card	SD, SDHC, SDXC
Dimensions	110.9 x 68 x 44.4mm
Weight	366g (with battery and card)

**O**f all the major camera manufacturers, Canon has been by far the most reluctant player when it comes to compact system cameras. Not only was Canon one of the last to make a mirrorless camera at all, with the EOS M in mid-2012, but it has also released just four compatible EF-M mount lenses to date. With a simplistic entry-level design and sub-par autofocus, the EOS M never really captured photographers' imaginations, so it's perhaps no surprise that Canon has taken so long to follow it up. But now, with the EOS M3, the company has moved distinctly towards attracting enthusiast photographers. The M3 is based around an all-new 24.2-million-pixel,





With its tilting LCD screen, the EOS M3 is great for exploring interesting angles, like in this low-level shot



APS-C-sized CMOS sensor. Perhaps surprisingly, this doesn't employ Canon's clever dual-pixel AF technology that is used on the EOS 70D and 7D Mark II, but instead incorporates phase-detection pixels to give a 49-point hybrid autofocus system.

In terms of design, the M3 borrows heavily from Canon's other small cameras, with a handgrip that's reminiscent of that on the EOS 100D, and a tilting touchscreen and EVF-compatible hotshoe like those on the PowerShot G1 X Mark II. It's also the first EOS to gain an exposure-compensation dial. The message here is clear – the M3 is designed to keep existing EOS owners, who might be tempted to buy another brand of CSC, in the Canon fold.

### Features

With a solid, but not exactly class-leading specification, Canon seems to have decided that the EOS M3 should keep prospective buyers reasonably satisfied without treading too much on the toes of its DSLR range. That 24.2MP sensor offers a sensitivity range of ISO 100–12,800, expandable to ISO 25,600. Shutter speeds run from 30secs up to 1/4000sec, and continuous shooting operates at 4.2fps with a five-image raw buffer (although unlimited shooting in JPEG).

When it comes to video, the M3 is capable of recording full HD 1920 x 1080-pixel movies at 30fps, 25fps or 24fps, with built-in stereo mics and the added bonus of a 3.5mm jack for an

external microphone. A focus-peaking display is available for manual focusing, which is displayed during recording to aid pulling focus from one subject to another. However, there's no overexposure-warning display.

For viewing images, the M3 has a 3in, 1.04-million-dot rear touchscreen that is hinged to tilt 45° downwards, upwards or fully forwards. There's no built-in viewfinder, but an optional EVF is available (more on this later).

Other features include the now-obligatory built-in Wi-Fi for connection to a smartphone or tablet, allowing remote control and image sharing. An NFC chip in the camera's base enables easy pairing with compatible devices. One nice touch is that the M3 also

has an IR receiver in the handgrip, for a more traditional take on wireless remote control.

### Screen and viewfinder

With no built-in viewfinder, most M3 owners will rely on the rear LCD. Thankfully, this is sharp and detailed, with pretty accurate colour rendition. The on-screen displays are clear and offer plenty of exposure information, and it's possible to cycle through various levels of detail, along with an SLR-like control panel display showing the main settings on an otherwise-blank screen that works best when using the EVF.

At its standard brightness setting the screen is a bit too dim for shooting in bright sunlight, but turn it up to maximum





## Focal points

The EOS M3 has plenty of external control points and includes a solid feature set too

### Pop-up flash

The tiny built-in flash is released by a sliding switch in the camera's side, and has a guide number of 5m @ ISO 100.

### Wi-Fi and NFC

An NFC chip is located in the camera's baseplate for easy Wi-Fi set-up with compatible devices.

### Battery

The LP-E17 battery is rated for just 250 shots per charge, and is replenished using the supplied external charger.

### Hotshoe

The hotshoe accepts Canon EX-series flashguns and third-party E-TTL alternatives, as well as the EVF-DC1 viewfinder.

### Customisable controls

The top-plate M-Fn button, the video record button and the down key on the D-pad can all have their functions reassigned according to the user's preference.

### Connectors

The EOS M3 sports USB and microphone sockets on one side of the camera, and a mini HDMI port on the other.

### IR remote receiver

This is compatible with Canon's RC-6 infrared release for wireless remote control.



The 18-55mm kit zoom has very effective IS – this was handheld at 1/6sec

and it works just fine. In low light the opposite problem appears, as the screen doesn't adjust down in brightness, making images look brighter than they really are. Unfortunately, while Canon includes a very useful RGB histogram display to help judge correct exposure, it takes up so much space on-screen that your subject becomes difficult to see.

For those who prefer an eye-level finder, the EVF-DC1 costs £250 separately or can be bought in kits with the EOS M3. It slots onto the hotshoe, can tilt 90° upwards and has an eye sensor for automatic switchover from the LCD. The 2.36-million-dot OLED panel is sharp and detailed, and the view is a decent enough size, similar to the optical finders of high-end APS-C DSLRs.

### Build and handling

From the moment you pick up the EOS M3, it's clear that Canon has thought hard about how to make a small camera that's still pleasant to use, with the result that this is one of the nicest-handling CSCs of its type. It feels very solidly made, and the handgrip is surprisingly secure, even when shooting one-handed.

The control layout is broadly similar to mid-range EOS DSLRs. A milled metal dial around the shutter button is used to change the main exposure settings, which clicks with pleasing precision. It is supplemented by an exposure-compensation dial that fits perfectly into Canon's standard EOS control logic, taking the place of the rear dial in P, Av and Tv modes, while also allowing exposure compensation to be applied when using auto ISO in manual-exposure mode. This means that the small rear dial surrounding the D-pad is only

needed to set the shutter speed or aperture in M mode.

Other key functions, including ISO and flash mode, have their own dedicated buttons on the camera back, with the on-screen Q menu allowing access to a further range of settings. Three buttons are customisable to the user's preference, namely the top-plate M-Fn button, video record button and the down key on the D-pad. Once these are configured, there's little reason to dive into the camera's menus, but when you do, you'll find they are clearly laid out and attractively designed. Most-used settings can be stored to a useful My Menu.

Canon has also done an excellent job of integrating its touchscreen interface into the overall control system. It is fast and responsive, and is particularly good for quickly selecting a focus area while you're shooting. Crucially, though, it's always a complement to the physical controls – never a replacement.

Possibly the biggest letdown in terms of design is the lens. At a time when other manufacturers have adopted compact retractable zooms, Canon's 6cm-long 18-55mm feels outdated. The M3 is only truly pocketable with the 22mm f/2 pancake prime lens.

### Focusing

The original EOS M's Achilles' heel was undoubtedly its autofocus system. Thankfully, the EOS M3 is much improved in this regard, at least with the 18-55mm kit zoom that I used for this test. While it doesn't feel as snappy as the very best of its competitors, I found the AF to be fine for everyday shooting, at least with subjects that weren't moving too quickly. It is also capable of tracking



Canon's new 24MP  
sensor can resolve  
lots of detail, with  
bold and attractive  
colour rendition







This ISO 2500 image retains strong colour and plenty of fine detail

➤ moving subjects to a degree, although the continuous shooting rate slows right down. Competitors such as the Samsung NX500 and Sony Alpha 6000 are much quicker.

Canon's EF and EF-S-mount DSLR lenses can be used on the M3 via the EF-EOS M-mount adapter, complete with electronic aperture control, image stabilisation and AF. In principle, the most recent STM lenses should autofocus perfectly well, but those with other types of focus motor might struggle. I tried this out with several older lenses, and while autofocus worked well enough for static subjects it was still very slow, taking a second or more to acquire focus. When a big shift of focus distance was necessary, the AF often hunted for a second or two and then gave up.

This means that, in many cases, manual focus can be quicker than autofocus. Yet while the EOS M has both magnified live view and a focus-peaking display, it stops fast lenses down automatically in bright light, which can result in inaccurate focusing. One way around this is to assign depth of field preview to the M-Fn button and hold it down during focusing, but this shouldn't be necessary.

Overall, I'd say that, while you can use your DSLR lenses on the EOS M, if you're looking for a small camera to make the most of them, the EOD 100D is still a better bet.

## Performance

When it comes to operational speed, the EOS M3 is quick enough, powering up in a second or so and responding instantly to control changes. Shot-to-shot times are a little sluggish, though, always requiring a delay of a

second or two between shots. This can get in the way of catching just the moment you want.

In terms of image quality, the 24.2MP sensor records plenty of detail, if not quite as much as others that have no low-pass filter. Metering is impressively accurate, generally doing a good job of maintaining highlight detail, and auto white balance is invariably well judged. Out-of-camera JPEGs offer pleasing, punchy colour that's maintained well at high ISO sensitivities, and I got perfectly acceptable results shooting up to ISO 6400 at least.

Canon also appears to have adjusted its JPEG processing to use much lighter luminance noise reduction. As a result, fine detail is rendered better, with little smudging of low-contrast areas such as grass or foliage, but at the penalty of higher luminance noise. Careful raw processing will, of course, give even better results.

One area where Canon sadly doesn't seem to have improved, though, is dynamic range at low ISOs. The EOS M3's sensor has relatively limited leeway for pulling up extra shadow detail from raw files, allowing just 2 or 3 stops of detail to be recovered before being swamped by noise. Cameras like the Sony Alpha 6000 and Samsung NX500 give at least 1 more stop of shadow detail.

I was also surprised to see that, while the M3 has lens-aberration correction options for vignetting and lateral chromatic aberration, unusually for a CSC it doesn't correct geometric distortion in-camera. This means that the 18-55mm's pronounced barrel distortion at wideangle remained visible in the horizons on landscape shots.



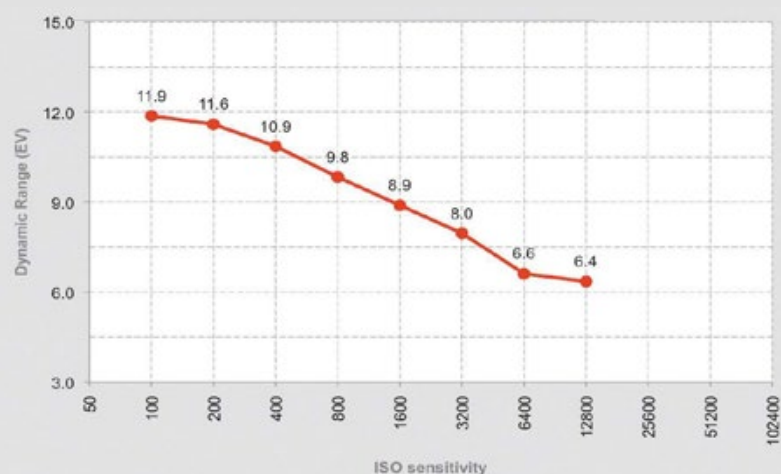
# Lab results

Andrew Sydenham's lab tests reveal just how the camera performs

THIS is the first time we've seen Canon's latest 24.2-million-pixel sensor in action, and on the whole it gives good results. Unlike some other recent high-resolution APS-C sensors, it still uses an anti-aliasing filter, so it doesn't reach the same heights of resolution, but equally it's less prone to artefacts. Noise performance is pretty good, and even ISO 6400 is quite usable, especially if you're prepared to process from raw. The in-camera processing does a good job of maintaining its vibrant colour output as the ISO is increased too.

The one area where Canon still lags behind the best in class is dynamic range – don't expect to be able to push shadows very far without seeing noise. However, on a more positive note we've seen no signs of banding when making adjustments in post-processing, which has been a problem with some Canon cameras in the past.

## Dynamic range



At ISO 100 the EOS M3 gives a dynamic range of 11.9EV in our Applied Imaging tests. This is a little way off the best of its peers, and means that it allows less shadow detail to be recovered from raw files in comparison. Dynamic range falls only a little on increasing the sensitivity to ISO 400, but after that it drops monotonously, to around 8EV at ISO 3200. The higher ISO sensitivities give very low readings, indicating that most shadow detail will be swamped by noise.

## Resolution



At ISO 100 the EOS M3 resolves around 3000l/ph, which is much what we'd expect from a 24MP sensor with a low-pass filter. Detail is smoothly blurred beyond this point, with no visible moiré or aliasing artefacts. There's little loss of resolution due to noise at sensitivities up to ISO 800, and it's only at ISO 1600 that it drops to about 2800l/ph. It doesn't drop too much further at the highest settings, with about 2600l/ph achieved at ISO 6400, and 2400l/ph at ISO 12,800.



## Noise

Both raw and JPEG images taken from our diorama scene are captured at the full range of ISO settings. The camera is placed in its default setting for JPEG images. Raw images are sharpened and noise reduction applied, to strike the best balance between resolution and noise.



JPEG ISO 100



JPEG ISO 400



JPEG ISO 1600



JPEG ISO 3200



JPEG ISO 6400



JPEG ISO 12,800



With its new 24.2MP sensor, the EOS M3 delivers really nice results at low ISOs, with plenty of detail and little visible noise. At ISO 400 noise starts to become visible at the pixel level, but it's unlikely to have much impact even on a large print (A3 or 12 x 18in). At ISO 800 shadow detail begins to block up in the camera's JPEGs, and the raw files indicate that noise is now becoming very visible. Even so, JPEG files remain very usable to ISO 3200 at least, although beyond this low-frequency chroma noise can become visible in shadow areas. Processing from raw with optimised noise reduction generally gives better results, and ISO 6400 can give quite acceptable images. However, higher ISO images are very noisy indeed and should only be used when necessary.

## The competition



### Samsung NX500

**Sensor** 28MP, APS-C BSI-CMOS

**Price** £600 with 16-50mm lens

Samsung's NX500 places the hugely impressive sensor we first saw in the NX1 into a more compact body. It's a very impressive camera with excellent autofocus and 4K movie recording. However, there's no option to add an EVF.



### Sony Alpha 6000

**Sensor** 24MP CMOS

**Price** £530 with 16-50mm lens

With a built-in electronic viewfinder, on-chip phase-detection autofocus and 11fps continuous shooting, the Alpha 6000 is one of the most capable compact system cameras on the market. At the current price it's a bargain.



### Olympus Pen E-PL7

**Sensor** 16MP, Four Thirds CMOS

**Price** £470 with 14-42mm lens

Olympus's retro-styled compact system camera takes all the best features from the popular OM-D range and places them in a more compact body. It's fully compatible with the extensive Micro Four Thirds lens range too.

## Our verdict

OVERALL, there's a lot to like about the Canon EOS M3. It is compact, well made and handles well, with a sensibly thought-out control layout and well-designed grip. Crucially, autofocus speed is much improved on earlier Canon EOS M models, to the extent that I never found it to be a problem while shooting with the 18-55mm kit zoom. Unfortunately, though, it's still very slow with most EF lenses via Canon's mount adapter, which means that you'll get best performance using the four EF-M lenses so far available.

There's not much to complain about with respect to image quality, with the new 24.2MP sensor giving highly detailed images at low ISOs and impressively low noise at high ISO settings. Indeed, the main disappointment is that Canon hasn't improved its low ISO dynamic range, so you can't dig as much detail out of the shadows when shooting raw as you can get from its APS-C competitors.

In other regards, though, it is difficult not to feel just a little

short-changed by the M3. With its relatively slow burst speed and meagre raw buffer it can't match the impressive performance achieved by CSCs of other brands, almost as if Canon has deliberately designed the M3 not to compete with its own DSLRs for speed. The relatively bulky kit zoom also makes the combination less portable compared to modern collapsible zooms, although its image quality is very good.

Overall, while the EOS M3 is a vastly better camera than the EOS M ever was, it's difficult not to conclude that you can get a lot more for your £600 from cameras like the Sony Alpha 6000 or Samsung NX500 – especially when you take into account the limited lens range available for the M3. This isn't to say it's a bad camera, as I think many photographers will like it, but to me it's a near-miss rather than a hit. Add an EVF, speed things up, and Canon could have a serious contender on its hands. Right now, though, the M3 feels a generation behind the state of the art.



Amateur  
Photographer  
Testbench  
Recommended  
★★★★

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BUILD & HANDLING	8/10
METERING	8/10
AUTOFOCUS	8/10
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This early sunrise shot of Fairfield church was captured at the widest end of the zoom range

# Tamron SP 15-30mm f/2.8 Di VC USD

Tamron's latest wideangle zoom lens combines a fast and constant f/2.8 maximum aperture with optical stabilisation. **Michael Topham** puts it to the test to find out if it's perfect in every way



**L**ATE last year, while attending the Photokina trade show, I got my hands on the very first sample of Tamron's new wideangle zoom – the SP 15-30mm f/2.8 Di VC USD. At the time, I questioned how well this model would sit in an already crowded wideangle lens market. However, I was told that it is different to what we've seen before in that it's the first wideangle zoom with a constant f/2.8 aperture and is equipped with optical stabilisation. Although Canon and Nikon both produce excellent

variations of wideangle zooms with optical stabilisation, in the form of the Canon EF 16-35mm f/4L IS USM and Nikon AF-S Nikkor 16-35mm f/4G ED VR, neither of these shoots at f/2.8 like the new Tamron. Even if you were to look at the more expensive Canon EF 16-35mm f/2.8L II USM or Nikon AF-S Nikkor 14-24mm f/2.8G ED, you'd find that neither of these supports optical stabilisation. What we have here, then, is a lens that's been designed to bring all the best features a photographer could ever want from a wideangle zoom lens

together in one model. The question is, does it live up to the promise of being the ultimate wideangle solution for serious photographers?

## Features

Before delving into the technical details of the construction, it should be noted that while primarily designed for use with full-frame cameras, the Tamron SP 15-30mm f/2.8 Di VC USD is a lens that's suitable for use on APS-C models too. Take the







Opening the lens to f/2.8 helps to blur background subjects and presents an opportunity to experiment with depth of field

➤ multiplication factor of an APS-C camera into consideration and this lens becomes more of a standard zoom than a wideangle, with a 22.5–45mm equivalent range. Based on the fact most people will be looking at this lens for its wideangle benefit, I will be testing it coupled to a Canon EOS 5D Mark III full-frame DSLR, with which it provides a 110°32'–71°35' angle of view.

The Tamron 15–30mm f/2.8 employs an 18-elements-in-13 groups arrangement and includes an expanded glass moulded aspherical element within the front group – the first of its kind to be found in a Tamron lens. Its purpose is to control aberrations effectively and enhance sharpness, while working in tandem with several low-dispersion glass elements. To protect the lens from unwanted reflections and ghosting, Tamron has used special eBAND nano-structured coatings, and just as we've come to expect from the manufacturer, this lens is equipped with an Ultrasonic Silent Drive (USD) motor to ensure autofocus operation is as quiet and as accurate as possible. Although the minimum focus distance won't be a deal breaker for the type of architectural, interior and landscape photographers this lens is aimed to target, it's possible to focus within 28cm (11in) of a subject, which is the same distance quoted by Canon and Nikon's wideangle zooms with an f/2.8 aperture.

Although some photographers may question the benefit optical stabilisation brings to a zoom so wide and to a lens that will be frequently coupled to a camera mounted to a tripod, it remains one of the key selling points. For those who prefer to work handheld or anyone using their camera in an environment

where a tripod or monopod can't be used, the optical stabilisation could make all the difference between capturing a pin-sharp shot rather than a blurred one.

Tamron has decided against specifying the rated number of stops the VC system is effective to, but out in the field I experienced no difficulty shooting sharp images with slow shutter speeds, and with the camera braced against my body I was able to achieve sharp shots with a shutter speed as slow as 1/2sec set to its widest 15mm setting.



**Focus speeds are hasty and in scenes with strong contrast it doesn't delay at locking onto a subject**

## ‘The additional weight contributes to a solid feel’

### Build and handling

Pictures of a lens don't always give the best impression of its size, and it's only when you pick this lens up that you become aware of how chunky it really is. Compared to Nikon's AF-S Nikkor 14–24mm f/2.8G ED, it's 130g heavier and there's a substantial 465g difference compared with Canon's relatively lightweight EF 16–35mm f/2.8L II USM. The additional weight contributes to a solid feel, though, and despite plastic being used in the construction of the barrel it feels up to the task of shaking off any occasional knocks that can occur in the field. Everything from its well-grooved rubberised zoom and focus rings to its permanently attached lens hood feel well put together, helping to radiate a build quality that feels on a par with its closest rivals.

The zoom functions across its range in less than a quarter of a turn of the zoom ring for fast operation, despite the fact it has more resistance than the manual-focus ring, which operates more fluidly and requires less effort to rotate it. As for the buttons, they sit quite flush to the barrel with only a slight protrusion.

From behind the camera and with my left hand supporting the lens beneath, the vibration-compensation switch falls to the thumb nicely, but the same can't be said for the AF/MF switch that's positioned higher and requires a good stretch of your thumb around the barrel to reach it. On numerous occasions during testing I found myself having to pull my eye away from the viewfinder to find the AF/MF switch when all I wanted was to find it



Handheld at 1/10sec



With Vibration Compensation



Without Vibration Compensation



The role the Vibration Compensation system plays is clearly illustrated here in a shot taken at 1/10sec

quickly by feel. The way the fixed petal hood protrudes beyond the bulbous front element offers excellent protection from knocks and scrapes. The felt-lined lens cap also provides further protection and is the push-fit type as opposed to the more traditional pinch-style.

### Image quality

For a lens that has a price tag approaching four figures you'd want a first-class image-quality performance in return. The good news is this is exactly what you get, and the results from our testing – both out in the field and back in the lab – suggest Tamron's engineers have worked hard to ensure it is the very best lens it can be.

Opening the lens to its f/2.8 maximum aperture reveals a drop off in sharpness in the corners, but by the time the aperture is stopped down to f/5–5.6 edges start to appear much sharper, with the ultimate sweet spot found between f/8 and f/11 at 15mm. At f/16 diffraction does begin to blur the image a little and becomes more pronounced at f/22. In the middle of the zoom range (24mm), sharpness levels are high between f/5.6 and f/11, while at the 30mm end I discovered an aperture setting of f/11 delivered the best results.

For a lens so wide and so fast, I expected vignetting to be a major concern. Thankfully, it's not as obstructive as I'd envisaged, and although it must be noted that corner shading is evident between f/2.8 and f/4.5 at its widest focal length, it gradually disperses as the aperture is closed towards f/5 and isn't as prominent at the middle or longer end of the focal length.

An inspection along high-contrast edges where aberrations can appear revealed traces of purple and green fringing. However, this was only obvious when an image was viewed at 100% or closer and isn't intrusively obvious in general viewing. There is evidence of barrel distortion at 15mm, while at 30mm straight lines also appear to bow outwards, indicating some pincushion distortion.

## Our verdict

THERE'S a lot to like about the Tamron SP 15–30mm f/2.8 Di VC USD, and for those after a moisture-resistant wideangle zoom with image stabilisation and an f/2.8 aperture it ticks all the right boxes. It's by no means cheap, but represents excellent value for money when you consider how well it performs optically and the way it offers vibration compensation – a feature neither the Canon EF 16–35mm f/2.8L II USM (£1,120) nor Nikon's AF-S Nikkor 14–24mm f/2.8G ED (£1,315) provides. With the exception of the positioning of the AF/MF switch, I was extremely pleased by its all-round performance. Full-frame DSLR users specialising in landscape, interior or architectural photography will definitely want to take a closer look, and although there's the small issue that it can't currently be used with filters, we expect a suitable filter holder will arrive for this lens in the coming months.



### Data file

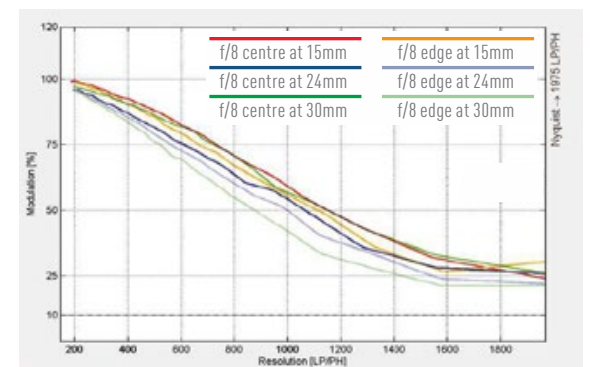
**Price** £950  
**Filter diameter** N/A  
**Lens elements** 18  
**Groups** 11  
**Diaphragm blades** 9  
**Aperture** f/2.8  
**Minimum focus** 28cm  
**Length** 145mm  
**Diameter** 98.4mm  
**Weight** 1,100g  
**Lens mount** Canon, Nikon, Sony

**Amateur Photographer**  
**Testbench**  
**Recommended**  
 ★★★★★

## Tamron SP 15–30mm f/2.8 Di VC USD

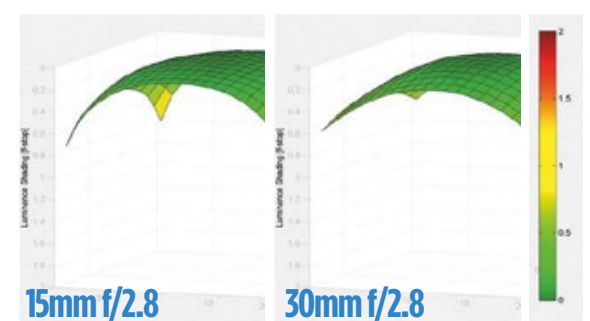
### Resolution

The best centre and corner sharpness is at f/8–11. Use the lens at its maximum aperture set to its widest focal length and you'll quickly realise the corners appear softer than the centre. Diffraction starts to have an effect on sharpness at f/16 and beyond, so for the finest results users will want to use it between f/5.6 and f/11 unless circumstances or a low-light environment dictates otherwise.



### Shading

Our graphs indicate that the lens shows signs of most vignetting when it's used at f/2.8 at 15mm. Closing the aperture by a couple of stops removes it completely. Vignetting is controlled slightly better as you push through the zoom range and you'll only need to close the lens by a stop (f/4) between 24mm and 30mm to see a big difference.



### Curvilinear distortion

Barrel distortion is evident at 15mm, and if you study the results below closely you'll notice straight lines have a tendency to bow in towards the edge. As the zoom is extended towards 24mm barrel distortion becomes less distinct, but our chart did reveal some pincushion distortion at 30mm with horizontal lines bowing out at the edge.

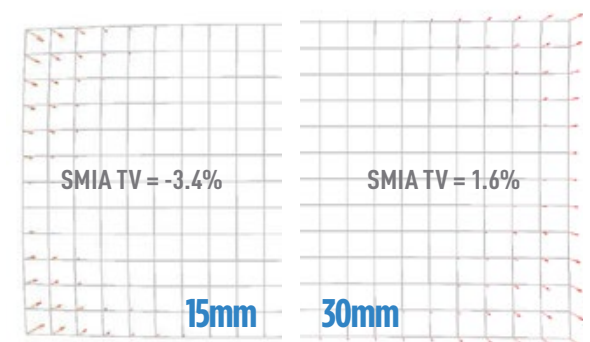






Image: Michael O'Sullivan

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## Superzoom quality

**Q** I would like to buy an 18–200mm lens to replace the 18–55mm that came with my Canon EOS 100D. I am really looking for a better zoom for bike shots, but I'd rather have one do-it-all lens than have to carry two, which is a pain when I'm out on the bike.

I would use the lens for pictures of me and the bike in various nice places, ride-by shots and all the usual family/holiday gatherings a camera is used for. I don't have a particular budget in mind, but obviously I'd be happier paying £100 than £500, although I will pay whatever is necessary. I would also be happy to buy a second-hand model.

Ultimately, though, will the quality be better or worse than the standard 18–55mm kit lens?

**BigDan1190**

**A** The answer to your question, Dan, depends on what you mean by 'quality'. All superzoom lenses tend to behave in much the same way. They show very strong barrel distortion at wideangle, then serious pincushion distortion across most of the rest of the range. So if you like straight lines to stay

straight, they behave much worse than typical 18–55mm kit zooms.

In terms of sharpness, superzooms typically surpass kit zooms across the entire shared range. In fact, they tend to be exceptionally sharp in the middle of the zoom range, maybe 35–85mm or so. At the long end, though, they get very soft, and visibly worse than 55–250mm telezooms.

Most superzooms perform very similarly, so in terms of image quality it doesn't really matter much if you go for Tamron, Sigma or Canon – just pick the best deal you can find. Of the slightly older and less expensive models, my personal favourite is the Sigma 18–250mm f/3.5–6.3 DC OS HSM, but the Tamron 18–270mm f/3.5–6.3 Di II VC PZD isn't far behind. Both cost £250–£300. However, one advantage of buying the more expensive (£390) Canon EF-S 18–200mm f/3.5–5.6 IS is that you can download a profile for correcting lens aberrations such as distortion and vignetting from Canon's



Superzoom lenses are usually least sharp at the telephoto end of their range

website, and install it on your EOS 100D to get corrected images directly out of the camera.

Ultimately, all-in-one lenses are a compromise of convenience over technical quality. The image quality isn't quite as good as carrying two lenses covering the same range, but obviously you don't have to change lenses. In my experience, this means you're also more likely to shoot at telephoto, and therefore get a wider variety of pictures. **Andy Westlake**

## Studio flags

**Q** I recently read an old book on studio lighting that kept referring to 'flags'. I'm going to hold my hands up and say I have no idea what a 'flag' is, and the book wasn't very good as I still have no idea what a flag is. Can you explain, please? **Neil Swinn**

**A** A flag is simply a black board that is used to block light reaching a certain area. The term is fairly loose and flags can range hugely in size and in the material they are made from. Commonly, they are made of fabric and are attached to a frame, or in larger studios they can be polystyrene boards painted black on one side and usually left white on the other so



A flag is a black board that is used to stop light reaching a certain area

they can be used as a reflector.

Flags soak up the light, rather than reflect it, so they can make part of a scene darker. Alternatively, they can be used strategically to prevent reflections on shiny surfaces.

**Richard Sibley**

## Firmware upgrades

**Q** I have recently seen that Sony has released a firmware update for its Alpha 7. I own an Alpha 7, but have no idea how to go about updating the firmware. To be honest, I'm a bit scared of breaking my camera as I have heard a few horror stories. Should I really attempt it myself or should I send it to Sony or somewhere else to get it sorted? **Darren Williams**

**Darren Williams**

**A** You should absolutely attempt the firmware upgrade yourself, Darren. Most manufacturers ask that you save the firmware to a memory card and install it from there. However, with Sony it is downloaded to your computer

and then installed.

You can find the firmware at [esupport.sony.com/US/p/model-home.pl?mdl=ILCE7](http://esupport.sony.com/US/p/model-home.pl?mdl=ILCE7), and if you follow the simple instructions there really is no way you will break your camera. Download it to your computer, run the software and it will guide you through the process. Basically, all you need to do is connect your camera to your computer via the Micro USB lead and the computer will install the new firmware.

The reason some people fear installing firmware is that there used to be a problem if you attempted to install it when the camera battery was about to run out. If the battery died halfway through the installation, it would often render the



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## Technical Support

➤ camera useless and it would have to be sent back to the manufacturer to have the firmware installed and the camera made operable again. However, these days most cameras warn you that you need a fully charged battery, or the camera has to be connected to a power supply, otherwise it won't allow you to start the installation. Just follow the simple instructions and you will be fine.

**Richard Sibley**

### Tripod collar wanted

**Q** I am trying to source a tripod-mount collar to fit my Nikon AF-S DX Nikkor 55-300mm f/4.5-5.6G ED VR lens. The barrel diameter is, I believe, 76mm (3in), but I am concerned that the weight could be too much for the



Lightweight telezooms place little strain on a camera's lens mount

body-mounting flange. Nikon doesn't produce a collar to fit this lens, and I have tried Jessops, Wex, Camera World and even eBay, all to no avail. Can you help?  
**Reg Metcalfe LRPS**

**A** The bad news is that I don't think you'll find a tripod collar for this lens, but the good news is that this is because you don't really need one, which is why Nikon doesn't make one. Your lens weighs around 530g, so it won't place enough strain on the camera body to worry about. Tripod collars are generally only used with much heavier lenses, such as the 1.5kg 70-200mm f/2.8 models. Personally, I've been using this type of lens for years without experiencing any problems at all. The main things, when shooting on a tripod with this kind of telezoom lens, are to turn off the vibration reduction and try to avoid extending the centre column very much. This should give you the sharpest pictures. **Andy Westlake**



## BLAST FROM THE PAST

# Minolta Dimage A1

**Ian Burley** looks at the last major camera launched by Minolta

**LAUNCHED** September 2003

**PRICE AT LAUNCH** £799

**GUIDE PRICE TODAY** £50

MINOLTA'S Dimage A1 was the last major camera launch made by Minolta before the company merged with Konica to form Konica Minolta. The A1 was also a pioneer of sensor-shift image stabilisation. A development of the Dimage 7 series first revealed two and a half years earlier, the Dimage A1 swapped AA batteries for a Lithium-ion rechargeable battery, but it retained its predecessor's 5MP  $\frac{2}{3}$ in CCD sensor.

**What's good** The A1 has a decent fixed zoom lens with an equivalent 28-200mm f/2.8-3.5 zoom/maximum aperture range and a manual-focus control that works nicely. The camera is good to hold, and you also get an electronic viewfinder with 220,000 dots. Both the viewfinder and small rear LCD tilt.

**What's bad** The electronic viewfinder wasn't particularly pleasant to view as it suffered from flicker and lag. Shutter lag was also disappointing and many reported problems with periodic autofocus reliability.



## HOW IT WORKS

I am  
your

# Semi-silvered mirror

I HAVE been a vital feature of many single-lens reflex cameras since long before the digital age, but I am now more important than ever, not just with all DSLRs but also with Sony SLT (single-lens translucent) digital cameras. I am a semi-silvered mirror.

A mirror is a reflective surface, with the reflective part usually formed from a very thin layer of metal. With SLRs it's the reflex mirror that can have semi-silvered areas. By reducing the thickness of a silvered or metal-layered area on the mirror, a percentage of the light is not reflected up into the pentaprism and into the viewfinder. This enables the unreflected portion to be diverted down, beneath the mirror to a dedicated sensor for autofocus.

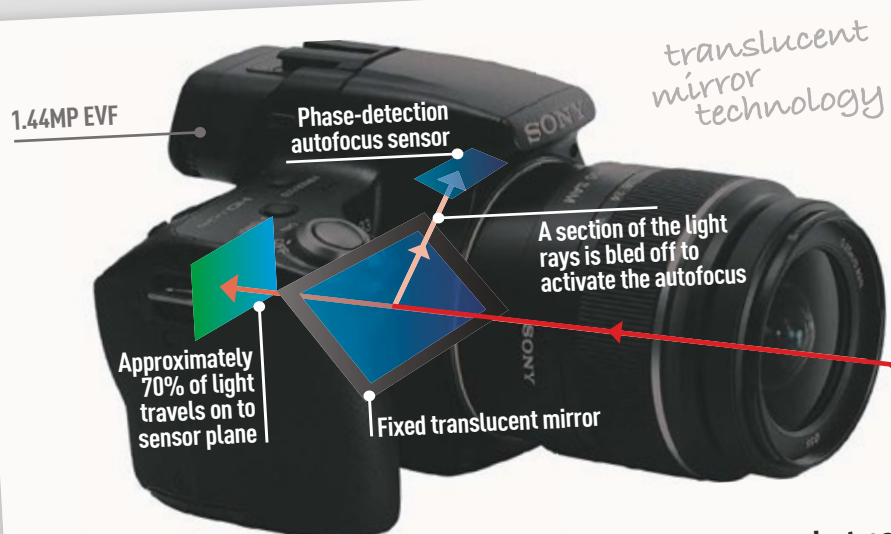
In the case of SLT cameras, the majority of the light passes straight through the mirror and, when the shutter is open, onto the sensor. The remainder is diverted upwards, to an autofocus sensor within the viewfinder housing.

A key advantage of SLT cameras is that as the mirror doesn't flip up and down between exposures, so the metering and focusing sensors can continue their work while exposures are being made with no interruption. At the same time, the viewfinder view also

remains constant. With reduced mechanical complexity there is less vibration and mechanical noise, and you can increase the sequential shooting rate of the shutter.

The idea of a fixed semi-silvered mirror is not new. Canon, for example, was using the idea in the 1960s with some of its professional Pellix SLRs.

A semi-silvered mirror sounds perfect, but there is one key weakness. If you divert some of the light coming from the lens, then the brightness either to the viewfinder or the metering or focus sensors – or even the image sensor, in the case of SLT cameras – is compromised. Nevertheless, the use of semi-silvered mirrors has been a great success in SLRs, DSLRs and SLT-type reflex cameras.



Pellicle beam splitters have been used for a century or more, but not in general-purpose still cameras. The lens is slowed but the mirror box and its mechanism becomes unnecessary and viewing is continuous



# Japanese refinement

## Introducing the new fit + slim range from Marumi

The new Fit + Slim range of filters from Marumi boast a lightweight, ultra-thin frame that still enables the user to attach a lens cap securely, thanks to the newly developed high-pressure press method.

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### PHOTO HACKS

# Lens cap keeper

If you often misplace your lens cap, then a small blob of Sugru can help

USUALLY I put my lens caps in my back pocket, or my front pocket, sometimes my coat pocket, or in my bag. You get the idea. Before too long the lens cap is nowhere to be seen, before it eventually shows up, seemingly out of nowhere.

There are a few ways to make sure that your lens cap never strays too far, but this DIY solution is one of the neatest. All you need is some Sugru, a piece of string and something to use to make a small hole. As you won't be using a lot of Sugru, this is the ideal little project if you have a small blob of it left over from our other recent projects. If you have missed these projects, then Sugru is a mouldable rubber that sticks hard to surfaces. For more information, or to find a stockist, visit [www.sugru.com](http://www.sugru.com).

#### What you will need

- Pack of Sugru
- A skewer or the inside of a ballpoint pen
- String



## HOW TO MAKE YOUR LENS CAP KEEPER



### 1 Make a ball

Take a small lump of Sugru and roll it into a ball around 1cm in diameter. Now press the ball onto the lens cap you wish to keep in place. We have used yellow Sugru so it shows up clearly, but black may be a neater choice for a more professional look.



### 2 Make a hole

Leave the Sugru a minute or two so that it settles and then pierce the ball straight through one side and out the other. I have used the inside of a ballpoint pen for this. With the hole made, smooth any imperfections in the surface of the Sugru with a slightly damp finger.



### 3 Thread the string

After around 24 hours the Sugru should set solid and be completely stuck to the lens cap. Now you can thread your string through the Sugru lump. Tie the other end of the string to the camera-strap buckle on the camera. A more advanced version would be to use the keyring loop on the camera strap lugs to make it easy to remove when changing lenses.

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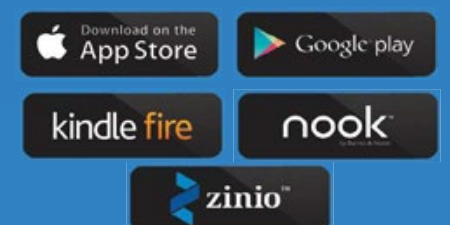


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NIKON D80 BODY COMPLETE WITH ALL ACCESS.....	MINT- £165.00
NIKON D80 BODY COMPLETE WITH ACCESS.....	EXC+ £145.00
NIKON D70 WITH NIKON 18 - 70 AFS LENS COMPLETE.....	MINT-BOXED £225.00
NIKON D70 BODY WITH BATTERY AND CHARGER.....	MINT- £95.00
NIKON MB-D10 BATTERY GRIP FOR D300/300S/700.....	EXC++-BOXED £79.00
NIKON MB-D80 BATT GRIP FOR NIKON D80/D90.....	EXC++ £39.00
NIKON SB50 DX SPEEDLIGHT COMPLETE.....	MINT-BOXED £59.00
NIKON SB600 SPEEDLIGHT.....	MINT- £169.00
NIKON SB800 SPEEDLIGHT.....	MINT-BOXED AS NEW £195.00
NIKON SB900 SPEEDLIGHT COMPLETE.....	MINT-BOXED £199.00
NIKON R1C1 CLOSE UP SPEEDLIGHT COMMANDER KIT.....	MINT-BOXED £445.00
METZ 45 CL4 DIGITAL FLASH FOR NIKON.....	MINT- £195.00
NIKON MH 19 MULTI-CHARGER FOR NIKON D700 etc.....	MINT-BOXED £75.00
SIGMA EF-530 DG ST ELECTRONIC FLASH III NIKON FIT.....	MINT-BOXED £149.00
NIKON SC 28 TTL REMOTE CORD.....	MINT-BOXED £35.00
NIKON MC-35 REMOTE CONTROL.....	MINT £73.00
OLYMPUS OM-D-M10 WITH 14-42 ZUIKO LENS + CHARGER.....	MINT £369.00
OLYMPUS E-P1 12mp + 14-42 LENS AND LEATHER CASE.....	MINT-BOXED £149.00
OLYMPUS E-P2 WITH 14-42 LENS COMPLETE.....	MINT-BOXED £199.00
SIGMA 10-20mm 14/5.6 DG EX HSM OLYMPUS 4/3rds.....	MINT+HOOD £245.00
OLYMPUS 50mm 12 MACRO ZUIKO DIGITAL ED 4/3rds.....	MINT-CASED £365.00
OLYMPUS 12 - 60mm 12.8/4 SWD ZUIKO DIG ED 4/3RDS.....	MINT-CASED £445.00
OLYMPUS 14 - 45mm 13.5/5.6 ZUIKO DIGITAL 4/3rds LENS.....	MINT+HOOD £495.00
OLYMPUS 70 - 300mm 14/5.6 ZUIKO DIGITAL ED 4/3rds.....	MINT £225.00
OLYMPUS EC-20 TELECONVERTER FOR 4/3rds.....	MINT-CASED £245.00
OLYMPUS EX - 25 EXTENSION TUBE 25mm.....	MINT-CASED £95.00
OLYMPUS HLD-4 BATTERY GRIP FOR E3 BODY.....	MINT £39.00
OLYMPUS HLD-5 BATTERY GRIP FOR E620 BODY.....	MINT £39.00
OLYMPUS FL-14 FLASH UNIT.....	EXC++-BOXED £69.00
OLYMPUS FL-40 FOR OLYMPUS DIGITAL.....	MINT-BOXED £59.00
PANASONIC GX7 BODY WITH PANASONIC 14-42 KIT.....	MINT-BOXED £445.00
PANASONIC GF1 BODY COMP WITH ACCESSORIES.....	MINT-BOXED £99.00
PANASONIC GF2 BODY COMPLETE WITH ALL ACCESS.....	MINT-BOXED £145.00
SIGMA 30mm f2.8 DN MICRO 4/3rds.....	MINT-BOXED £115.00
SONY A7 BODY COMPLETE LITTLE USE.....	MINT-BOXED £675.00
SONY DT 30mm f2.8 MACRO SAM LENS.....	MINT-BOXED £115.00
SONY 16 - 105mm 13.5/5.6 DT LENS WITH HOOD.....	MINT £195.00
SONY ALPHA 28 - 75mm f2.8 SAM LENS.....	MINT-BOXED £299.00
SIGMA 1.4 APO EX DG TELECONVERTER FOR SONY.....	MINT-BOXED £215.00
SONY ALPHA HVL-F36AM FLASH GUN.....	MINT-CASED £129.00

## Canon Autofocus, Digital Lenses, Canon FD

CANON EOS 1 BODY.....	EXC+ £115.00
CANON EOS 1N BODY.....	EXC+ £145.00
CANON EOS 3 BODY.....	EXC++ £99.00
CANON FIN AE WITH CANON 50mm f1.4 LENS.....	MINT £895.00
CANON 17 - 40mm 14 USM "L" WITH HOOD.....	MINT-CASED £428.00
CANON 17 - 40mm 14 USM "L" WITH FILTER.....	MINT-BOXED £459.00
CANON 20 - 35mm f2.8 USM "L".....	MINT- £499.00
CANON 28 - 300mm F3.5/5.6 USM "L" IMAGE STABILIZER.....	MINT-CASED £1,225.00
CANON 70 - 200mm f2.8 USM "L" IS IMAGE STAB MKI.....	MINT-BOXED £899.00
CANON 70 - 200mm f2.8 USM "L" IS IMAGE STAB MK II.....	MINT-BOXED £1,299.00
CANON 70 - 200mm 14 USM "L".....	MINT-BOXED £425.00
CANON 100 - 400mm 14/5.6 USM "L" IMAGE STABILIZERMINT-CASED £775.00	
CANON 14mm f2.8 USM "L".....	MINT-BOXED £795.00
CANON 35mm f1.4 USM "L" SUPERB SHARP LENS.....	MINT-BOXED £775.00
CANON 85mm f1.2 USM "L" MK II LATEST.....	MINT-BOXED AS NEW £1,195.00
CANON 200mm f2.8 USM "L" MK II WITH HOOD.....	MINT £475.00
CANON 300mm 14 USM "L" IMAGE STABILIZER.....	MINT-BOXED £895.00
CANON 400mm 15.6 USM "L" WITH HOOD AND CASE.....	MINT-BOXED £845.00
CANON 400mm 14 DO USM IMAGE STABILIZER LENS.....	MINT-CASED £3,495.00
CANON 20mm f2.8 USM COMPLETE.....	MINT-BOXED £299.00
CANON 50mm f1.8 MARK 1 (VERY RARE NOW).....	MINT £149.00
CANON 50mm f2.5 COMPACT MACRO.....	MINT- £175.00
CANON 60mm f2.8 USM MACRO LATEST.....	MINT-BOXED £279.00
CANON 100mm f2 USM.....	MINT- £295.00
CANON 15 - 85mm 13.5/5.6 EF-S USM IS + CAN HOOD.....	MINT+HOOD £475.00
CANON 17 - 55mm f2.8 USM IMAGE STABILIZER.....	MINT- £445.00
CANON 17 - 55mm f2.8 USM IMAGE STABILIZER + HOOD.....	MINT-BOXED £475.00
CANON 17 - 85mm 14/5.6 IMAGE STABILIZER.....	MINT-BOXED £169.00
CANON 18 - 55mm 13.5/5.6 MK II.....	MINT £59.00
CANON 18 - 135mm 13.5/5.6 EFS IMAGE STABILIZER.....	MINT + HOOD £195.00
CANON 18 - 200mm 13.5/5.6 EF-S IMAGE STABILIZER.....	MINT+HOOD £325.00
CANON 28 - 90mm 14/5.6 USM.....	MINT £69.00
CANON 28 - 105mm 13.5/4.5 USM.....	MINT £145.00
CANON 28 - 135mm 13.5/5.6 USM IMAGE STABILIZER.....	MINT-BOXED £195.00
CANON 28 - 200mm 13.5/5.6 USM.....	MINT £179.00
CANON 35 - 80mm 14/5.6 EF MKII.....	MINT £39.00
CANON 55 - 250mm 14/5.6 MKII IMAGE STABILIZER.....	MINT-BOXED £159.00
CANON 70 - 300mm 14/5.6 USM IMAGE STABILIZER.....	MINT-BOXED £265.00
CANON 75 - 300mm 14.5/5.6 + HOOD.....	MINT £89.00
CANON 75 - 300mm 14.5/5.6 USM.....	MINT- £99.00
CANON 75 - 300mm 14/5.6 EF MK III (LATEST VERSION).....	MINT-BOXED £129.00
CANON 75 - 300mm 14/5.6 EF MK III (LATEST VERSION).....	MINT £95.00
CANON 100 - 300mm 14/5.6 USM.....	MINT- £95.00
CANON EF25 II EXTENSION TUBE.....	MINT-BOXED £79.00
KENCO DG CANON FIT TUBE SET 12,20,36mm.....	MINT-BOXED £99.00
CANON EF 1.4x EXTENDER MK I.....	MINT £275.00
CANON EF 1.4x EXTENDER MK II.....	MINT-BOXED £199.00
CANON EF 2.0x EXTENDER MK I.....	MINT-BOXED £175.00

CANON EF 2.0x EXTENDER MK II.....	MINT-BOXED £199.00
CANON EF 2.0x EXTENDER MK II.....	MINT-CASED £179.00
KENCO DG CANON FIT TUBE SET 12,20,36mm.....	MINT- £99.00
KENCO TELEPLUS PRO 300 DGX 2.0 TELECONVERTER.....	MINT-BOXED £165.00
TELEPLUS MC7 7 ELEMENT 2x TELECONVERTER.....	MINT- £75.00
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SIGMA 4.5mm f2.8 EX DC HSM CIRCULAR FISHEYE.....	MINT-CASED £475.00
SIGMA 10mm f2.8 EX DC FISHEYE HSM.....	MINT-BOXED £345.00
SIGMA 14mm f2.8 ASPHERICAL CANON FIT.....	MINT-BOXED £365.00
SIGMA 105mm f2.8 EX DG MACRO SUPERB SHARP LENS.....	MINT-BOXED £245.00
SIGMA 17 - 35mm 12.8/4 EX HSM ASPHERIC.....	MINT- £179.00
SIGMA 70 - 300mm 14/5.6 APO MACRO DG + HOOD.....	MINT-BOXED £95.00
SIGMA 120 - 400mm 14/5.6 APO DG HSM OS.....	NEW £495.00
SIGMA 170 - 500mm 15/6.3 APO COMP WITH HOOD.....	MINT-BOXED £299.00
TAMRON 14mm f2.8 SP ASPHERICAL WIDE ANGLE.....	MINT-CASED £345.00
TAMRON 90mm f2.8 SP DI MACRO LENS.....	MINT-BOXED £225.00
TAMRON 28 - 300mm 13.5/6.3 I/F LD DI ASP VIB CONTROL MINT-BOXED £375.00	
TOKINA 10 - 17mm 13.5/4.5 ATX DC FISHEYE (LATEST).....	MINT £299.00

## Contax 'G' Compacts & SLR & Ricoh

CONTAX G2 BODY SUPERB CONDITION.....	MINT-BOXED £395.00
CONTAX G2 BODY WITH STRAP.....	EXC++ £345.00
CONTAX TIX TITANIUM COMPACT + LEATHER CASE.....	MINT-CASED £299.00
CONTAX 28mm f2.8 BIOGON "G" + HOOD, FILTER, CAP.....	MINT-CASED £265.00
CONTAX 90mm f2.8 SONNAR "G" + HOOD, FILTER, CAP.....	MINT-CASED £195.00
CONTAX TLA 140 FLASH FOR G1/G2.....	MINT-CASED £65.00
CONTAX TLA 200 FLASH FOR G1/G2.....	MINT-CASED £69.00
CONTAX G01 DATABASE FOR CONTAX T3.....	MINT-BOXED £69.00
CONTAX AX AUTOFOCUS BODY (RARE NOW).....	MINT- £295.00
CONTAX RX BODY WITH MANUAL.....	MINT-BOXED £169.00
CONTAX RX BODY WITH MANUAL.....	MINT- £159.00
CONTAX FIX YASHICA 28mm f2.8 SUPERB CONDITION.....	MINT £65.00
CONTAX 35mm f2.8 DISTAGON MM.....	MINT £195.00
CONTAX 45mm f2.8 TESSAR T* PANCAKE LENS + HOOD.....	MINT £195.00
CONTAX 135mm f2.8 SONNAR T* MM.....	EXC++-BOXED £195.00
CONTAX 28 - 70mm 13.5/4.5 VARIO SONNAR T* MM.....	MINT-BOXED £295.00
CONTAX TLA 280 FLASH.....	MINT- £95.00

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LEICA M9 STEEL GREY COMPLETE 5083 ACTUATIONS.....	MINT-BOXED £2,295.00
LEICA V LUX 20 COMPLETE WITH ALL ACCESSORIES.....	MINT £169.00
LEICA M2 BODY COMPLETE WITH INST BOOK.....	MINT-BOXED £795.00
LEICA M2 BODY WITH CASE.....	EXC++-CASED £595.00
LEICA Mda BODY SER No 12659X CIRCA 1970.....	MINT- £425.00
LEICA Mda BODY SER No 14111X CIRCA 1975-76.....	EXC++ £399.00
LEICA II 8 50mm f2 NIKKEL ELM ("FROM A COLLECTION").....	EXC++ £365.00
LEICA IIF RED DIAL BODY ("FROM A COLLECTION").....	EXC++ £245.00
LEICA III BODY REALLY NICE ONE.....	EXC £245.00
LEICA IIIA/STANDARD WITH 5cm f2 COLL SUMMITAR.....	EXC++ £365.00
LEICA III BODY REALLY NICE CLEAN BODY WITH CASE.....	MINT- £295.00
LEICA IIC BODY WITH CASE.....	EXC++ £195.00
LEICA CL BODY.....	MINT- £495.00
VOIGTLANDER BESSA R2 M & VOIGTLANDER GRIP.....	MINT-BOXED £325.00
ZEISS 21mm f4.5 BIOGON ZM.....	MINT-BOXED AS NEW £699.00
LEICA 21mm 14 SP ANGULON + M ADAP + FINDER..MINT IN KEPPER £1,295.00	
LEICA 28mm f2.8 ELMARIT M COMP WITH HOOD V.4.....	MINT-BOXED £875.00
LEICA 35mm f3.5 SUMMARON M WITH LEICA FILTER.....	MINT- £395.00
LEICA 35mm f3.5 SUMMARON M WITH SPECS.....	MINT- £395.00
LEICA 50mm f2 SUMMICRON BLACK 11826.....	MINT-BOXED £895.00
LEICA 50mm f2 SUMMICRON 6 BIT LATEST.....	MINT-BOXED £995.00
LEICA 50mm f2 SUMMICRON CHROME SER No 36301#.....	MINT+HOOD £995.00
LEICA 50mm f2 SUMMICRON BLACK COMP WITH HOOD.....	MINT-BOXED £850.00
LEICA 50mm f2 SUMMICRON COLLAPSIBLE THORIUM.....	MINT- £399.00
LEICA 50mm f2 SUMMICRON COLLAPSIBLE THORIUM.....	MINT £465.00
LEICA 50mm f2 SUMMICRON CHROME M FIT.....	EXC++ £595.00
LEICA 50mm f2 SUMMICRON CHROME M FIT.....	MINT £645.00
LEICA 50mm f2 CLOSE FOCUS SUMMICRON.....	EXC++ £445.00
LEICA 5cm f3.5 COLLAPSABLE ELMAR FOR M 13339#.....	MINT- £325.00
LEICA 90mm f2.5 SUMMARIT M 6 BIT LATEST + HOOD.....	MINT-CASED £875.00
LEICA 90mm f2.8 ELMARIT M CHROME WITH HOOD.....	MINT- £295.00
LEICA 90mm f4 ELMAR C M MOUNT.....	MINT-CASED £275.00
LEICA 135mm f2.8 ELMARIT WITH SPECS.....	EXC++ £295.00
LEICA 135mm f4.5 HEKTOR.....	EXC+ £75.00
VOIGTLANDER 15mm f4.5 S/W HELIAR WITH FINDER.....	MINT-BOXED £285.00
VOIGTLANDER 25mm f4 COL SKOPAR VM.....	MINT-BOXED £275.00
VOIGTLANDER 25mm f4 COL SKO LEICA SCREW + FDR.....	MINT-BOXED £295.00
VOIGTLANDER 28mm f2 BLACK VM.....	MINT £345.00
VOIGTLANDER 50mm f1.5 NOKTON WITH LEICA M MOUNT.....	MINT- £395.00
VOIGTLANDER 75mm f2.5 COLOR HELIAR L39.....	MINT-BOXED £275.00
VOIGTLANDER 15mm FINDER.....	MINT £79.00
VOIGTLANDER BESSA R GRIP FOR R,R2,R3 etc.....	MINT-BOXED £49.00
LEICA UNIVERSAL POLARISING FILTER KIT M(13356).....	MINT-BOXED £225.00
LEICA M GRIP FOR M7/M6/M6TTL etc.....	MINT- £49.00
CANON 28mm f3.5 SERENAR SCREW.....	MINT- £175.00
RODENSTOCK HELIGON 35mm f2.8 LEICA SCREW RARE.....	MINT- £375.00
LEICA 35mm f2.8 SUMMARON SCREW L39.....	MINT- £499.00
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LEICA 135mm f4.5 HEKTOR + HOOD M MOUNT.....	EXC++ £99.00
LEICA 135mm f4.5 HEKTOR IN KEPPER.....	EXC+++ £199.00
LEICA FIT DALLMEYER 13.5cm f4.5 DALRAC.....	EXC++ £375.00
LEICA 90mm f4 ELMAR BLACK SCREW.....	EXC++ £145.00
LEICA 135mm f4.5 HEKTOR + HOOD SCREW.....	EXC++ £99.00
LEICA SF240 FLASH.....	MINT-BOXED £189.00
LEICA FONOR BLACK RANGEFINDER.....	MINT-CASED £175.00
LEICA WINDER M4-2 FOR M4 etc.....	MINT-BOXED £145.00
LEICA R5 BODY BLACK.....	MINT- £225.00
LEICAFLEX SL BODY CHROME.....	MINT-BOXED £245.00
LEICAFLEX SL BODY CHROME.....	MINT-BOXED £175.00
LEICA 50mm f2 SUMMICRON ROM LENS 11345.....	MINT-BOXED £445.00
LEICA 50mm f2 SUMMICRON R 2 CAM.....	MINT £199.00
LEICA 180mm f4 ELMARIT R 3 CAM.....	EXC++ £345.00
LEICA 35 - 70mm f3.5 R VARIO ELMAR.....	MINT-CASED £275.00
LEICA MOTORWINDER AND STRAP FOR R6 etc.....	MINT-BOXED £145.00
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HASSELBLAD LEATHER ERC CASE FOR X PAN.....	MINT- £175.00
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BRONICA 45mm 14 RF LENS FOR RF645 WITH FINDER.....	MINT BOXED £325.00
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BRONICA 40mm f4 PE LENS TOTALLY AS NEW.....	MINT BOXED £195.00
BRONICA 40mm f4 ZENANON FOR ETRS/ETRSI.....	MINT- £159.00
BRONICA 50mm f2.8 ZENANON MC.....	EXC+++ £99.00
BRONICA 110mm 14 MACRO LENS PS.....	MINT- £295.00
BRONICA 150mm f3.5 ZENANON E MC.....	MINT BOXED £99.00
BRONICA 150mm f3.5 ZENANON E MC.....	MINT £89.00
BRONICA 150mm F4 E.....	MINT- £89.00
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BRONICA AEI METERED PRISM.....	EXC+ £75.00
BRONICA PLAIN PRISM FOR ETRS/ETRSI.....	MINT £75.00
BRONICA PLAIN PRISM FOR ETRS/ETRSI.....	EXC++ £59.00
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BRONICA SPEEDGRIP FOR ETRS/ETRSI.....	MINT- £45.00
BRONICA MOTOR WINDER E.....	EXC+++ £89.00
BRONICA 150mm f3.5 ZENANON S.....	MINT- £165.00
BRONICA 65mm 14 ZENANON PS FOR SQ.....	MINT-CASED £145.00
BRONICA 110mm 14 PS ZENANON MACRO FOR SQ.....	MINT-CASED £365.00
BRONICA 150mm 14 PS ZENANON FOR SQ.....	MINT-CASED £145.00
BRONICA PRISM ME METERED FOR SQA/SQAI.....	MINT- £89.00
BRONICA SPEED GRIP FOR SQA/SQAI.....	MINT- £59.00
FUJI GA645 Zi PRO WITH 55-90 ZOOM LENS.....	EXC+++ £395.00
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MAMIYA 43mm f4.5 WITH FINDER & HOOD FOR 77II.....	MINT BOXED £799.00
MAMIYA 150mm f4.5 WITH HOOD FOR 77II.....	MINT BOXED £395.00
MAMIYA 150mm f4.5 + HOOD FOR MAMIYA 77II.....	MINT £425.00
MAMIYA 180mm f4.5 SEKOR Z W FOR RZ.....	MINT £199.00
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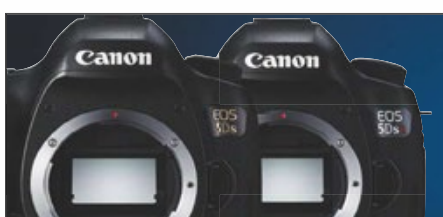
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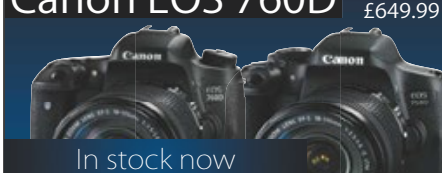
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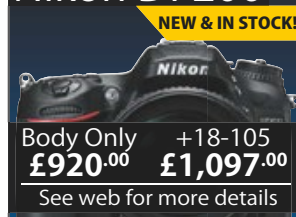
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14mm f/2.8L II USM	<b>£1,668.00</b>	200mm f/2.8L USM/2	<b>£569.00</b>	EF-S 18-200mm f/3.5-5.6 IS	<b>£389.00</b>
20mm f/2.8 USM	<b>£385.00</b>	300mm f/2.8L USM IS II	<b>£4,799.00</b>	24-70mm f/2.8L II USM	<b>£1,479.00</b>
24mm f/1.4L Mk II USM	<b>£1,224.00</b>	400mm f/4.0 DO IS II USM	<b>See web</b>	24-70mm f/4.0L IS USM	<b>£705.00</b>
24mm f/2.8 IS USM	<b>£455.00</b>	400mm f/5.6L USM	<b>£929.00</b>	24-105mm f/4.0L IS USM	<b>£749.00</b>
EF-S 24mm f/2.8 STM <b>NEW</b>	<b>£139.00</b>	500mm f/4.0L USM IS MK II	<b>£6,899.00</b>	24-105mm (White Box)	<b>£599.00</b>
28mm f/1.8 USM	<b>£379.00</b>	600mm f/4.0L USM IS MK II	<b>£8,895.00</b>	24-105mm f/3.5-5.6 IS STM	<b>£459.00</b>
28mm f/2.8 IS USM	<b>£389.00</b>	800mm f/5.6L IS USM	<b>£9,899.00</b>	28-300mm f/3.5-5.6L IS USM	<b>£1,885.00</b>
35mm f/1.4L USM	<b>£989.00</b>	TSE 17mm f/4.0L	<b>£1,659.00</b>	EF-S 55-250mm f/4-5.6 IS STM	<b>£225.00</b>
35mm f/2.0 IS USM	<b>£399.00</b>	TSE 24mm f/3.5L II	<b>£1,479.00</b>	EF-S 55-250mm f/4-5.6 IS II	<b>£169.00</b>
40mm f/2.8 STM	<b>£149.00</b>	TSE 45mm f/2.8	<b>£1,129.00</b>	70-200mm f/2.8L IS II USM	<b>£1,535.00</b>
50mm f/1.2 L USM	<b>£1,035.00</b>	TSE 90mm f/2.8	<b>£1,124.00</b>	70-200mm f/2.8L USM	<b>£975.00</b>
50mm f/1.4 USM	<b>£244.00</b>	8-15mm f/4L Fisheye USM	<b>£915.00</b>	70-200mm f/4.0L IS USM	<b>£866.00</b>
50mm f/1.8 II	<b>£88.00</b>	EF-S 10-18mm IS STM	<b>£198.00</b>	70-200mm f/4.0L USM	<b>£471.00</b>
50mm f/2.5 Macro	<b>£203.00</b>	EF-S 10-22mm f/3.5-4.5 USM	<b>£411.00</b>	70-300mm f/4.0-5.6 IS USM	<b>£369.00</b>
EF-S 60mm f/2.8 Macro	<b>£333.00</b>	EF 11-24mm f/4L USM	<b>£2,799.00</b>	70-300mm f/4.0-5.6L IS USM	<b>£904.00</b>
MP-E 65mm f/2.8	<b>£853.00</b>	EF-S 15-85mm f/3.5-5.6 IS	<b>£542.00</b>	70-300mm DO IS USM	<b>£1,118.00</b>
85mm f/1.2L II USM	<b>£1,499.00</b>	EF-S 17-55mm f/2.8L II USM	<b>£1,119.00</b>	75-300mm f/4.0-5.6 III	<b>£188.00</b>
85mm f/1.8 USM	<b>£264.00</b>	16-35mm f/4.0L IS USM	<b>£737.00</b>	75-300mm f/4.0-5.6 USM III	<b>£219.00</b>
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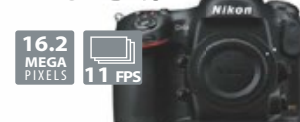


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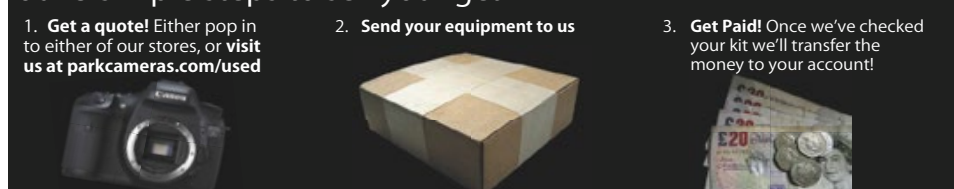


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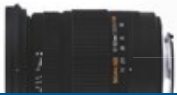
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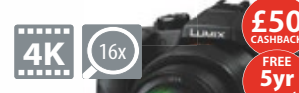
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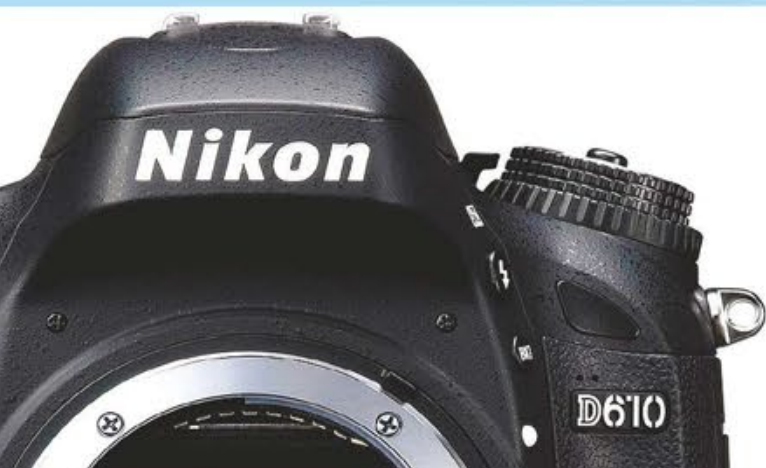
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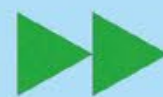
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**Nikon D3300**  
Black, Red or Grey

24.2 megapixels  
5.0 fps  
1080p movie mode

**D3300** From **£353**

D3300 Body **£353**  
D3300 + 18-55mm VR II **£389**



**Nikon D5500**

24.2 megapixels  
5.0 fps  
1080p movie mode

**NEW D5500** From **£608**

NEW D5500 Body **£608**  
NEW D5500 + 18-55mm VR II **£669**  
NEW D5500 + 18-140mm VR **£879**



**Nikon D7100**

24.1 megapixels  
6.0 fps  
1080p movie mode

up to **£375 CASHBACK\*** when bought with selected lenses

**D7100** From **£749**

D7100 Body **£749**  
D7100 + 18-105mm VR **£899**

See [www.wex.co.uk/nikond7100](http://www.wex.co.uk/nikond7100) for cashback\* details



**Nikon D7200**

24.2 megapixels  
6.0 fps  
1080p movie mode

**NEW D7200** From **£920**

NEW D7200 Body **£920**  
NEW D7200 + 18-105mm **£1119**

D3200 Body **£237**  
D3200 + 18-55mm f3.5-5.6 VR II **£299**

D5300 Body **£504**  
D5300 + 18-55mm VR II **£559**  
D5300 + 18-140mm VR **£759**

CUSTOMER REVIEW: D7100 Body  
★★★★★ 'Quality bit of kit! Love it!' Fang! - Warwickshire

Read our D7200 review on our blog at [wex.co.uk/blog](http://wex.co.uk/blog)



**Nikon D610**

24.3 megapixels  
6.0 fps  
1080p movie mode  
Full Frame CMO Sensor

up to **£400 CASHBACK\*** when bought with selected lenses

**D610** From **£1199**

D610 Body **£1199**  
D610 + 24-85mm **£1599**

See [www.wex.co.uk/nikond610](http://www.wex.co.uk/nikond610) for cashback\* details



**Nikon D750**

24.3 megapixels  
6.5 fps  
1080p movie mode  
Full Frame CMO Sensor

up to **£425 CASHBACK\*** when bought with selected lenses

**NEW D750** From **£1749**

NEW D750 Body **£1749**  
NEW D750 + 24-85mm **£2199**  
NEW D750 + 24-120mm **£2299**

See [www.wex.co.uk/nikond750](http://www.wex.co.uk/nikond750) for cashback\* details



**Nikon D810**

36.3 megapixels  
5.0 fps  
Full Frame CMO Sensor

**D810** **£2399**

D810 Body **£2399**  
NEW D810A Body **£2999**

Read our D810 review on our blog at [wex.co.uk/blog](http://wex.co.uk/blog)



**Nikon D4s**

16.2 megapixels  
11.0 fps  
Full Frame CMO Sensor

**D4s** **£4449**

D4s Body **£4449**

CUSTOMER REVIEW: D4s Body  
★★★★★ 'Spectacular Camera' Charlie Delta - Hertfordshire

\*Nikon lenses cashback offer ends 31.5.15. See website for full details  
For 2-year warranty on any camera and lens kit simply register your new Nikon within 30 days of purchase. Offer applies to UK & Republic of Ireland stock only. Call 0800 597 8472 or visit [www.nikon.co.uk/register](http://www.nikon.co.uk/register)



**SONY A7 II** Black

24.3 megapixels  
5.0 fps  
1080p movie mode

**NEW A7 II** Body **£1449**

NEW A7 II Body **£1449**  
A7s Body **£1699**  
A7R Body **£1339**  
A7 Body **£899**

RECOMMENDED LENSES:  
Sony FE 55mm F1.8 ZA Carl Zeiss Sonnar T\* **£849**  
Sony FE 35mm f2.8 ZA Carl Zeiss Sonnar T\* **£695**  
Sony FE 16-35mm f4.0 ZA OSS ZA Vario Sonnar T\* **£1289**



**SONY A6000** Black or Silver

24.3 megapixels  
11.0 fps

**A6000** From **£449**

A6000 Body **£449**  
A6000 + 16-50mm PZ **£529**  
A5000 + 16-50mm PZ **£269**  
A5000 + 16-50mm PZ + 55-210mm **£449**

Sony 50mm f1.8 **£269**  
Sony 18-200mm f3.5-6.3 OSS **£559**



**SONY A77 II**

24.3 megapixels  
12.0 fps  
1080p movie mode

**A77 II** From **£764**

A77 II Body **£764**  
A77 II + 16-50mm **£1199**  
A58 + 18-55mm **£339**  
A58 + 18-55mm + 55-200mm **£499**

RECOMMENDED LENSES:  
Sony 50mm f1.4 **£299**  
Sony 16-50mm f2.8 DT SSM **£479**



**Panasonic GH4**

16.05 megapixels  
12.0 fps  
4K Video

**GH4** From **£1129**

GH4 Body **£1029 inc. C/back\*** price you pay today **£1129**  
GH4 + 14-140mm f3.5-5.6 **£1499 inc. C/back\*** price you pay today **£1599**

RECOMMENDED LENSES:  
12-35mm f2.8 Vario Power OIS **£799**  
14-140mm f3.5-5.6 OIS **£479**  
42.5mm f1.2 ASPH **£1099**

\*Cashback offer ends 2.6.15.



**Panasonic GF7** Silver or Brown

16.0 megapixels  
5.8 fps  
Wi-Fi Built in

**GF7 with 12-32mm** **£399**

NEW GF7 + 12-32mm **£399**  
GX7 + 14-42mm **£449 inc. £50 C/back\*** price you pay today **£499**  
GX7 + 20mm **£510 inc. £50 C/back\*** price you pay today

\*Cashback offer ends 24.6.15.



**OLYMPUS OM-D E-M5 II** Black & Silver

16.1 megapixels  
10.0 fps  
1080p movie mode

**OM-D E-M5 II** From **£899**

NEW OM-D E-M5 II Body **£899**  
NEW OM-D E-M5 II + 12-40mm **£1499**  
NEW OM-D E-M5 II + 12-50mm **£1099**  
OM-D E-M10 Body **£399**  
NEW OM-D E-M10 + 14-150mm II **£799**  
OM-D E-M1 Body **£899**  
OM-D E-M1 + 12-50mm **£1079**  
OM-D E-M1 + 12-40mm **£1499**



**OLYMPUS E-PL7** Silver, Black or White

16.1 megapixels  
8.0 fps

**E-PL7** From **£319**

E-PL7 Body **£319**  
E-PL7 + 14-42mm **£469**

RECOMMENDED LENSES:  
Olympus 12mm f2.0 ED **£899**  
Olympus 17mm f1.8 **£359**  
NEW Olympus 40-150mm f2.8 Pro **£1299**  
Olympus 60mm f2.8 Macro **£365**  
Olympus 25mm f1.8 **£299**



**PENTAX K-3 II**

24.3 megapixels  
8.3 fps  
Full HD movie mode

**K-3 II** From **£769**

NEW K-3 II Body **£769**  
NEW K-3 II + 18-55mm **£849**  
NEW K-3 II + 18-135mm **£1069**  
NEW K-3 II + 16-35mm **£1149**  
K-3 Body **£769**  
K-3 Prestige edition **£999**  
K-50 from **£369**  
K-S1 from **£419**  
NEW K-S2 Body **£549**  
NEW K-S2 + 18-55mm **£649**



**FUJIFILM X-E2** Black or Silver

16.3 megapixels  
7.0 fps

**X-E2** From **£499**

X-E2 Body **£499**  
X-E2 + 18-55mm **£729**  
X-M1 + 16-50mm **£349**  
NEW X-A2 + 16-50mm II **£399**

FUJINON X-MOUNT LENSES:  
35mm f1.4 R **£379**  
56mm f1.2 R **£729**  
50-140mm f2.8 WR OIS XF **£1099**



**FUJIFILM X-T1**

16.3 megapixels  
8.0 fps  
1080p movie mode

**X-T1** From **£879**

X-T1 Body **£879**  
X-T1 + 18-55mm **£1179**  
X-T1 + 18-135mm **£1249**  
X-Pro1 + 2 FREE LENSES & CASE WORTH **£847** **£658**

NEW 16-55mm f2.8 R LM WR **£899**  
55-200mm **£495**  
f3.5-4.8 R LM OIS XF **£495**  
56mm f1.2 APD XF **£999**



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J. Whigham – Norfolk

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The first of its kind in the EOS line-up, the Canon 5DS is a full-frame DSLR boasting a groundbreaking 50.6-megapixel CMOS sensor for professional photographers who want high-resolution images and extraordinary detail.

Aimed at the most demanding professionals, the 5DS R sports a low-pass cancellation filter to deliver sharpness and extraordinary clarity.

**NEW 5DS Body** £2999  
**NEW 5DS R Body** £3199

50.6 megapixels 5.0 fps 1080p movie mode

**NEW 5DS Body £2999**

**NEW 5DS R Body £3199**

**Up to £250 cashback\* when bought with selected lenses. Offer ends 31.7.15**  
See [www.wex.co.uk/canon5ds](http://www.wex.co.uk/canon5ds) for details

**Canon** | PRO  
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**EOS 760D**

24.7 megapixels  
5.0 fps  
1080p movie mode

**up to £40  
CASHBACK\***  
when bought with  
selected lenses

**760D Body £649**

**NEW 760D Body** £649  
**750D Body** £599  
**750D + 18-55mm** £689  
**750D + 18-135mm** £899

See [www.wex.co.uk/canon760d](http://www.wex.co.uk/canon760d)  
for details

**700D Body** £419  
**700D + 18-55mm IS STM** £489  
**700D + 18-135mm IS STM** £668  
**700D + 18-135mm IS STM  
+ 40mm STM** £799

**Canon** | PRO  
PARTNER

**70D**

20.2 megapixels  
7.0 fps  
1080p movie mode

**70D From £743**

**70D Body** £743  
**70D + 18-55mm f3.5-5.6 IS STM** £773  
**70D + 18-135mm f3.5-5.6 IS STM** £989

**CUSTOMER REVIEW: EOS 70D + 18-135mm IS STM**

★★★★★ 'An excellent step up'  
Adam – Portsmouth

**Canon** | PRO  
PARTNER

**EOS 7D MkII**

20.2 megapixels  
10.0 fps  
1080p movie mode  
Full Frame CMOS sensor

**up to £250  
CASHBACK\***  
when bought with  
selected lenses

**7D Mk II From £1429**

**7D Mark II Body** £1429  
See [www.wex.co.uk/canon7dii](http://www.wex.co.uk/canon7dii)  
for cashback\* details

**Canon** | PRO  
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**EOS 6D**

20.2 megapixels  
4.5 fps  
1080p movie mode  
Full Frame CMOS sensor

**6D From £1150**

**6D Body** £1150  
**NEW 6D + 24-70mm f4.0 L IS USM** £1849

**Canon** | PRO  
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**5D Mark III**

22.3 megapixels  
6.0 fps  
1080p movie mode  
Full Frame CMOS sensor

**5D Mark III From £2249**

**5D Mark III Body** £2249  
**5D Mark III + 24-105mm f4.0L IS USM** £2749

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**EOS 1Dx**

18.1 megapixels  
12.0 fps  
Full Frame CMOS sensor

**1Dx Body £4499**

**CUSTOMER REVIEW: EOS 1D X Digital SLR Camera Body**

★★★★★ '...bought this as an upgrade to  
the 5D Mk 2 and have never  
looked back!' Dave – Cornwall

\*Canon lenses cashback offer ends 31.7.15

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**Tripods**

**GITZO** GT3542L  
• 178cm Max Height  
• 16cm Min Height

**Mountaineer Carbon eXact Tripod:**

GT0532	£479
GT1532	£539
GT2542	£599
GT3542L	£749

**Manfrotto** Imagine More

**MT190XPRO3**  
• 160cm Max Height  
• 9cm Min Height

MT190XPRO3	£149
MT190XPRO4	£169
MT190CXPRO3 Carbon Fibre	£279
MT190CXPRO4 Carbon Fibre	£279
MT190XPRO3 + 496RC2 Ball Head	£139
MT190XPRO4 + 496RC2 Ball Head	£199

**Manfrotto** Imagine More

**Befree Travel Tripod**  
• 144cm Max Height  
• 34cm Min Height

**Aluminium**  
Available in Black, Red,  
Green and Blue..... £119

**Carbon Fibre**..... £279

**JOBY**

**Hybrid GP2B**  
• 1000g Max Load  
• 25.7cm Height

**Joby Tripods**  
Original..... £17  
Hybrid..... £29  
SLR Zoom..... from £39  
Focus GP-8..... from £79

### Flashguns & Lighting Accessories

<b>Canon</b>   PRO PARTNER <b>Speedlites:</b> 430EX II £189 600EX-RT £449	<b>Macrolites:</b> MR-14EX II £499 MT-24EX £749	<b>Nikon</b> <b>Speedlights:</b> SB700 £229 SB910 £339	<b>Kits:</b> R1 Close-Up £415 R1C1 £559	<b>SONY</b> Flashguns: HVL-F43M £275 HVL-F60AM £439	<b>OLYMPUS</b> Flashguns: FL-300R £134.99 FL-600R £279	<b>PENTAX</b> Flashguns: AF 540FGZ £349 AF 360FGZ £225
<b>Flashguns:</b> 24 AF-1 £49.99 44 AF-1 £125 52 AF-1 £179 58 AF-2 £249	<b>Macro flash:</b> 15 MS-1 £269	<b>SIGMA</b> Flashguns: EF 610 DG ST £109.99 EF 610 DG Super £149.99	<b>Nissin</b> Flashguns: MG8000 £349 Di622 II £114.99 Di700 £159 Di866 Mark II £199	<b>SUNPAK</b> Flashguns: PF30X £74.99 16R Pro £337.99	<b>SEKONIC</b> PZ42X £99 PF30X £74.99 16R Pro £337.99	<b>GOSSEN</b> Sekonic L-308s £149 Pro 478DR £324.99 DigiPro F £159.99
<b>PocketWizard</b> MiniTT1 £149 FlexTT5 £149	<b>Plus III Set</b> £229 <b>PlusX Set</b> £139.99	<b>Sand Bag</b> £9.99 <b>3m Background Support</b> £99 <b>Light Stands</b> From £10.99	<b>Softlite Reflector Kits</b> Inc Honeycomb & Diffuser: 42cm £49 55cm £69 70cm £129	<b>Rogue</b> FlashBender From £23.99	<b>INTERFIT</b> Folding Softbox From £54.99 Reflector Bracket £24.99	<b>Off Camera flash Cord</b> From £30.99
<b>westcott</b> Micro Apollo £25.99 Collapsible Umbrella Flash Kit £65	<b>Lastolite</b> Ezybox Softbox £44.99 Ezybox Hotshoe From £89.99 EzyBalance Grey £19.99	<b>Background Support</b> £124.99 <b>TriFlip Kits</b> From £69.99 <b>Urban Collapsible</b> £165	<b>Reflectors:</b> 30cm £12.50 50cm £22.99 75cm £34.99 95cm £59 120cm £74.99	<b>Tilthead</b> £17.99		

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## DSLR Lenses

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### CANON LENSES

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EF-S 24mm f2.8 Pancake	£139
EF 28mm f1.8 USM	£379
EF 35mm f2.0 IS USM	£399
EF 40mm f2.8 STM	£149
TS-E 45mm f2.8	£1129
EF 50mm f1.2 L USM	£1035
EF 50mm f2.5 Macro Lens	£219
MP-E 65mm f2.8 1-5x Macro	£853
EF 85mm f1.2 L USM II	£1499
TS-E 90mm f2.8	£1124
EF 100mm f2.8 USM Macro	£385
EF 300mm f4.0 L IS USM	£999
EF 400mm f4.0 DO IS USM II	£6999
EF 500mm f4.0 L IS USM II	£6899
EF-S 10-22mm f3.5-4.5 USM	£411
<b>NEW</b> EF 11-24mm f4L USM	£2799
EF-S 15-85mm f3.5-5.6 IS USM	£542
EF 16-35mm f4.0 L IS USM	£737
EF-S 17-55mm f2.8 IS USM	£532
EF-S 18-55mm f3.5-5.6 IS STM Lens	£169
EF-S 18-135mm f3.5-5.6 IS STM	£313
EF-S 18-200mm f3.5-5.6 IS	£389
EF 24-70mm f2.8 L IS USM II	£1479
EF 24-70mm f4 L IS USM	£705
EF 24-105mm f4.0 L IS USM	£727
EF 24-105mm f3.5-5.6 IS STM	£375
EF 28-135mm f3.5-5.6 IS USM	£359
EF 70-200mm f2.8L IS USM II	£1530
EF 70-200mm f4 L IS USM	£866
EF 70-300mm f4.0-5.6 IS USM	£369
EF 70-300mm f4.0-5.6 L IS USM	£904
<b>NEW</b> EF 100-400mm f4.5-5.6L IS USM II	£1999

EF-S 10-18mm f4.5-5.6 IS STM	£192
EF 50mm f1.4 USM	£244
EF 100 f2.8L Macro IS USM	£639
EF-S 55-250mm f4.5-5.6 IS STM	£225



### NIKON LENSES

10.5mm f2.8 G IF-ED AF DX Fisheye	£549
14mm f2.8 D AF ED Lens	£1239
20mm f1.8 G AF-S ED	£679
24mm f1.4 G AF-S ED	£1465
<b>NEW</b> 28mm f1.8 G AF-S	£495
35mm f1.8 G AF-S DX	£128
<b>including £20 Cashback*</b> price you pay today	£148
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50mm f1.4 G AF-S	£279
50mm f2.8 G AF-S ED Micro	£369
60mm f2.8 D AF Micro	£368
58mm f1.4 G AF-S	£1299
85mm f1.8 G AF-S	£299
<b>including £50 Cashback*</b> price you pay today	£349
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<b>including £90 Cashback*</b> price you pay today	£619
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180mm f2.8 D AF IF-ED	£695
200mm f4.0 AF Micro	£1179
<b>NEW</b> 300mm f4.0E AF-S PF ED VR	£1639
10-24mm f3.5-4.5 G AF-S DX	£549
<b>including £90 Cashback*</b> price you pay today	£639
12-24mm f4 G AF-S IF-ED DX	£839

14-24mm f2.8 G ED AF-S	£1315
16-85mm f3.5-5.6 G ED AF-S DX VR	£378
<b>including £60 Cashback*</b> price you pay today	£438
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18-35mm f3.5-4.5G AF-S ED	£519
18-55mm f3.5-5.6 G AF-S DX VR II	£229
18-105mm AF-S DX f3.5-5.6 G ED VR	£204
18-140mm f3.5-5.6 G ED AF-S DX VR	£459
18-200mm f3.5-5.6 G ED AF-S DX VR II	£504
<b>including £80 Cashback*</b> price you pay today	£584
18-300mm f3.5-5.6 ED AF-S VR	£579
<b>including £90 Cashback*</b> price you pay today	£669
24-70mm f2.8 G ED AF-S	£1060
<b>inc. £175 Cashback*</b> price you pay today	£1235
24-85mm f3.5-4.5 AF-S G ED VR	£399
24-120mm f4 G AF-S ED VR	£749
28-300mm f3.5-5.6 G ED AF-S VR	£659
55-200mm f4-5.6 G AF-S DX VR IF-ED	£241
<b>NEW</b> 55-200mm f4.0-5.6 G AF-S ED DX VR II	£279
55-300mm f4.5-5.6 G AF-S DX VR	£279
70-200mm f2.8G ED AF-S VR II	£1354
<b>inc. £225 Cashback*</b> price you pay today	£1579
70-300mm f4.5-5.6 G ED AF-S IF VR	£359
<b>including £60 Cashback*</b> price you pay today	£419
80-400mm f4.5-5.6 G ED AF-S VR	£1624
<b>inc. £275 Cashback*</b> price you pay today	£1899

## SIGMA

### SIGMA LENSES - with 3 Year Warranty

30mm f1.4 DC HSM	£379
35mm f1.4 DG HSM	£699
50mm f1.4 EX DG HSM	£319
70mm f2.8 EX DG Macro	£351
85mm f1.4 EX DG HSM	£649
105mm f2.8 APO EX DG OS HSM Macro	£399
150mm f2.8 EX DG OS HSM Macro	£668

8-16mm f4.5-5.6 DC HSM	£549
10-20mm f4.0-5.6 EX DC HSM	£345
10-20mm f3.5 EX DC HSM	£399
12-24mm f4.5-5.6 EX DG HSM II	£599
17-70mm f2.8-4.0 DC OS HSM	£329
18-200mm f3.5-6.3 DC OS HSM II	£239
18-250mm f3.5-6.3 DC Macro OS HSM	£299
<b>NEW</b> 18-300mm f3.6-6.3 C DC Macro OS HSM	£399
24-70mm f2.8 IF EX DG HSM	£599
50-150mm f2.8 EX DC APO OS HSM	£739
50-500mm f4.5-6.3 DG OS HSM	£999
70-200mm f2.8 EX DG OS HSM	£799
70-300mm f4.0-5.6 DG OS	£275
120-300mm f2.8 OS	£2699
120-400mm f4.5-5.6 DG OS HSM	From £639
150-500mm f5.0-6.3 DG OS HSM	£699
<b>NEW</b> 150-600mm f5.0-6.3 S DG OS HSM	£1499
<b>NEW</b> 24mm f1.4 DG HSM A	£699
<b>NEW</b> 150-600mm f5-6.3 C DG OS HSM	£899

## TAMRON

### TAMRON LENSES - with 5 Year Warranty

90mm f2.8-4.0 VC USD Macro	£379
180mm f3.5 Di SP AF Macro	£698
10-24mm f3.5-4.5 Di II LD SP AF ASP IF	£359
<b>NEW</b> 15-30mm f2.8 SP Di VC USD	£949
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18-200mm f3.5-6.3 AF XR Di II	£132
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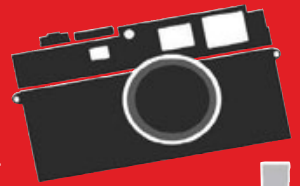
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Auto Extension Tube No2.....	E+ / E++ £29 - £39	70-210mm F4-5.6 AFN.....	E+ £49
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2x extender E.....£79		L IS U.....£699/799	H2 + prism + mag.....£1799	Polaroid back.....£69	D5000 body.....£199	ATX Pro.....£249	14-45 F3.5/5.6.....£149
E14, 28 or 42 ext tube.....£49		180 F3.5 L.....£779	+ 80 F2.8.....£1799	WLF.....£79	D3100 body.....£149	<b>FLASH / ACCESSORIES USED</b>	14-140 F4/5.8.....£279
120 RFH.....£69		200 F2.8 LII box.....£449	HM-16/32 back.....£199	FE701 prism.....£179	D80 body.....£129	SB-25.....£49	20 F1.7 MKI box.....£179
Polaroid Back.....£25		300 F2.8 IS L U MKI.....£2849	<b>HASSELBLAD 6x6 USED</b>	AE prism early.....£79	MBD-11.....£119	SB-900.....£269	45-150 F4/5.6.....£169
WLF.....£69		300 F4 IS USM.....£799	500CM + A12.....£199	Winder II.....£69	MBD-14 M- box.....£169	SB-R200 box.....£149	45-200 F4/5.6 box.....£199
Rotary prism.....£129		400 F2.8 L IS U.....£4799	+ 80 F2.8 CF.....£999	50 F4.5 W.....£199/299	MBD-80.....£49	SD-8 box.....£49	100-300 F4/5.6 M-.....£349
AEIII prism.....£179		400 F5.6 L.....£849	500CM chrome.....£999	65 F4 box M-.....£399	Coolpix P7100.....£149	SD-8A batt pack.....£79	FZ200.....£199
AEII Prism.....£79		500 F4 L IS U.....£4699	+ 80 F2.8 CF + A12.....£799	90 F3.5 W M- box.....£299	<b>NIKON AF USED</b>	DR-6 angle finder.....£149	<b>PENTAX DIGITAL AF USED</b>
Plain Prism E.....£29		600 F4 L IS U.....£4499	503CX chrome body.....£449	127 F3.5 box.....£299	F5 body.....£349	DR-3 angle finder.....£69	K20D body.....£149
Angle viewfinder E.....£129		1.4x ext MKIII box.....£269	PM45 prism box.....£299	180 F4.5 W box.....£199	F4S body.....£199	MB-16 M- box.....£89	K10D body.....£99
Winder early.....£79		1.4x extender MKII.....£199	PME prism box.....£149	360 F6.....£149	F801 body.....£229/59	MB-21 (fits F4).....£99	DBG2 grip.....£69
Speed Grip E.....£39		2x ext MKIII box.....£269	45° Prism late.....£149	No 2 ext tube.....£49	F50/F55 body each.....£29	MB-23 (fits F4).....£79	<b>PENTAX 35mm AF USED</b>
Tripod adapter E.....£39		2x extender MKII.....£189	45° Prism early.....£69	Pro shade.....£49	F601 body.....£29	MC-30 remote.....£39	17-70 F4 SDM M- box.....£349
Winder early.....£49		Kenko 1.5x conv.....£59	NC1 prism.....£69	Minolta/Sony Digital Used	10-24 F3.5/4.5 DX.....£499	MF-23 (date back F4).....£79	18-55 F3.5/5.6.....£29
Metz SCA 386.....£49		Kenko Pro 300.....£99	WLF chrome.....£99	Sony A900 body.....£679	AFS.....£499	<b>NIKON MF USED</b>	20-35 f4 box.....£329
<b>BRONICA SQ 6x6 USED</b>		DG 1.4x.....£99	WLF early.....£49	Sony A850 body.....£POA	12-24 F4 DX.....£499	F2 + DP-1 blk.....£199	21 F3.2 AL Limited.....£299
40 F4 S.....£299		Kenko Pro 300 DG 2x.....£99	Chimney.....£89	Sony A700 body box.....£249	14-24 F2.8 M- box.....£1099	F3HP body.....£199	28-70 F4 AL.....£59
50 F3.5 S.....£149		Teleplus 2x DG conv.....£89	A16 black.....£149	Sony A200 body.....£139	16-85 F3.5/5.6.....£299	F3 body.....£149	28-80 F3.5/5.6.....£49
135 F4 PS M-.....£249		Kenko ext tube set DG.....£99	A12 latest chr/blk.....£249	Sony A100 body.....£89	AFS VR.....£299	FE-2 body blk.....£249	28-90 F3.5/5.6 FA.....£69
150 F3.5 S.....£79		Jessops ext tubes.....£69	A12 latest chr.....£179	Sony VGB30AM.....£79	17-55 F2.8 AFS DX.....£449	FE-2 body chr.....£179	31 F1.8 Limited.....£599
150 F4 PS.....£149/199		BP-E1 batt pack.....£49	A12 late blk/chr.....£129	Sony VGC70AM.....£139	18-55 F3.5/5.6 VR II.....£99	FM2n body chr.....£179	M- box.....£599
200 F4.5 PS M- box.....£199		BP-50.....£20	Polaroid back.....£89	Sony HVL56AM flash.....£229	18-135 F3.5/5.6 VRII.....£99	FM2n body blk.....£199/299	35 F2.8 Limited.....£299
2x PS converter M-.....£179		LC-4 wireless kit.....£89	50 F2.8 FE box.....£549	HLX300 compact.....£179	AFS DX.....£149	FM body blk.....£79	40 F2.8 Limited M-.....£249
Polaroid back.....£25		Angle finder C.....£99	40 F4 CF.....£899	<b>SONY NEX USED</b>	18-200 F3.5/5.6.....£379	FG20 body.....£49	43 F1.9 Limited.....£399
SQAi 120 RFH.....£79		PB-E2 drive.....£99	60 F3.5 CB.....£439	NEX 7 body box.....£349	AFS VRII.....£379	EM body.....£29	M- box.....£399
SQA 120 RFH.....£49		Tripod mnt ring C (W2).....£89	150 F4 CFI.....£449/499	NEX 6 body.....£249	18-200 F3.5/5.6.....£249	24 F2 AIS.....£339	50-135 F2.8 SDM.....£499
SQA 135N back.....£119		Tripod mnt ring II (B).....£65	150 F4 CF.....£399	NEX 5N + 18-55.....£239	AFS VRI.....£249	24 F2.8 AI.....£129	M- box.....£499
Plain Prism S Boxed.....£69		<b>SIGMA CAF USED</b>	150 F4 chrome.....£149	NEX 5 body.....£179	20 F2.8 AFD box.....£399	28 F2.8 AIS.....£139	50-200 F4/5.6 WR.....£99
AE Prism Early.....£79		10 F2.8 DC Fisheye.....£349	Vivitar 2x conv.....£69	16 F2.8.....£99	24 F2.8 AFD.....£299	28 F3.5 AI.....£99	55-300 F4.5/5.8.....£229
ME Prism Finder.....£69		10-20 F4/5.6 HSM.....£249	Polariser - 60mm.....£79	SIGMA 30 F2.8 EX DN.....£99	24-50 f3.5/4.5 AF.....£129	35 F2.8 AI.....£99	ED box.....£229
Metz SCA 386.....£49		box.....£249	<b>LEICA M/COMPACT USED</b>	TAM 18-200 F3.5/6.3.....£199	24-70 F2.8 AFS box.....£1049	35-105 F3.5/4.5 AIS.....£99	70 F2.8 Limited.....£349
Pro shade S.....£59		17-70 F2.8/4 DC.....£249	35 F2.8 Asp silv.....£1499	Dill VC.....£199	24-85 F3.5/4.5 AFG.....£199	43-86 F3.5 AI.....£49	70-200 F4/5.6.....£69
Lens Hood 65-80.....£20		OS HSM.....£249	M- box.....£1499	<b>MINOLTA/SONY AF USED</b>	24-120 F4 AFS VR.....£549	50 F1.4 AIS.....£199	70-300 F4/5.6.....£79
SQAi Motorwinder.....£149		17-70 F2.8/4.5 DC.....£149	50 F1.4 silv 6 bit.....£1699	9000 body.....£79	24-120 f3.5/5.6 VR.....£299	50 F1.8 AIS.....£89	77 F1.8 Limited silv.....£599
Speed grip S.....£69		18-35 F1.8 DC M-.....£499	90 F2 black E55.....£POA	Dynax 700Si + VC700.....£69	28 F2.8 AFD.....£119	50 F1.8 AIS pancake.....£139	<b>SIGMA PKAF USED</b>
<b>CANON DIGITAL AF USED</b>		18-50 F2.8/4.5 DC OS.....£149	<b>LEICA SLR USED</b>	700Si body.....£49	28-80 F3.5/5.6 AF G.....£49	50 F1.8 E.....£59	10-20 f4/5.6 EX DC.....£279
1D MKIV body box.....£1799		18-50 F3.5/5.6 DC box.....£49	24-70 F3.5/4.5.....£479	7xi body.....£49	28-300 F3.5/5.6.....£549	55 F2.8 AIS.....£149	12-24 F4/5.6 EX.....£499
1D MKIV body.....£1299		24-70 F2.8 HSM.....£469	ROM box.....£479	Dynax 5 body.....£39	AFS VR.....£549	55 F3.5 AI.....£89	DG Mint.....£499
1D MKIIS body.....£1599		24-70 F1.8 EX DG mac.....£349	70-200 F4 (3 cam).....£249	505Si Super.....£225	35 F1 AFD box.....£169	80-200 F4.5 AI.....£99	18-250 F3.5/6.3.....£199
1D MKII body box.....£2299		50 F2.4 DG Art.....£549	250 F4 (3 cam).....£399	300Si or SPXi body ea.....£19	35-70 F3.3/4.5 AF.....£49	85 F2 AI.....£149	OS DC.....£199
7D MKII body M- box.....£1199		M- box.....£549	Angle finder R.....£149	20-35 F3.5/4.5.....£249	35-80 F4/5.6 AFD.....£49	105 F1.8 AIS scruffy.....£119	105 F2.8 EX DG.....£329
7D body.....£399/499		50 F1.4 EX DC.....£249	<b>LIGHTMETERS USED</b>	M- box.....£249	40 F2.8 AFD.....£49	135 F2.8 E box.....£99	M- box.....£329
5D MKII body box.....£999		70-200 F2.8 DG OS.....£599	Minolta Autometer IVF.....£149	20-50 F4.....£149	50 F1.8 AFD box.....£79	180 F2.8 AIS ED.....£POA	150-500 F3.5/6.3.....£499
5D MKI body box.....£399		70-200 F2.8 EX.....£429	Minolta Autometer III.....£49	24-105 F3.5/4.5 AFD box.....£179	50 F1.4 AFS G.....£229	180 F2.8 AIS ED.....£199	DG OS.....£499
50D body box.....£299		DG HSM.....£429	Minolta Flashmeter V.....£199	28 F2.8.....£99	50 F1.4 AFD.....£179	scruffy.....£199	TAM 17-50 F2.8 XR Di.....£199
40D body.....£199		70-300 F4/5.6.....£319	Sekonic L308.....£109	28-85 F3.5/4.5.....£129	50 F1.8 AFD box.....£79	200 F4 AIS.....£149	<b>PENTAX 35mm MF USED</b>
20D body.....£129		AP0 mac DG.....£99	Sekonic L358.....£169	28-100 F3.5/5.6 D.....£49	55-200 F4/5.6 AFS.....£69	200 F4 AI.....£99	LX + prism.....£199
550D body box.....£249		100-300 F4 EX DG.....£379	Sekonic L558.....£249	35-70 F4.....£39	55-300 F4.5/5.6.....£199	TC14A.....£129	K1000 body chr.....£79
450D body.....£179		105 F2.8 EX DG.....£319	<b>MAMIYA 645 MF USED</b>	35-70 F3.5/4.5.....£25	AFS VR DX.....£199	TC200.....£49	P30T body.....£59
350D body.....£99		OS M-.....£319	645 Pro + 80 F2.8 N.....£299	35-80 f4/5.6.....£25	60 F2.8 AFD.....£199	DE-3 fits f3 box.....£129	P30N body.....£59
300D body.....£79		120-400 F4/5.6.....£499	+ 120 RFH + prism.....£299	35-105 F3.5/4.5.....£99	70-200 F2.8 VRII.....£799	SC-17 TTL lead.....£25	17 F4 Fisheye M-.....£369
BG-E1.....£39		DG OS.....£499	645 Pro TL body.....£199	50 F1.4 AF.....£149	70-200 F2.8 AFS VRII.....£799	SC-29 TTL lead.....£39	28 F2.8.....£59
BG-E2N.....£59		1.4x EX DG conv.....£169	645 Pro body.....£179	50 F1.7.....£79	70-300 F4.5/5.6.....£299	DW-4 6x mag find fit F3.....£99	28-80 F3.5/4.5.....£49
BG-ED3.....£39		2x EX converter.....£99	645E + 80 + winder.....£199	50 F2.8 macro.....£179	AFS VR.....£299	PK-13 ext tube.....£29	35-70 F2.8.....£149
BG-E4.....£49		<b>OTHER CAF USED</b>	645E body.....£129	70-210 F4.....£99	80-200 F2.8 AFD N.....£599	PK-12 ext tube.....£29	45-125 F4/4.5.....£129
BG-E5.....£49		SAMYANG 14 F2.8.....£239	645 Super comp.....£179	75-300 F4.5/5.6.....£99	80-400 F4.5/5.6 AFS.....£1549	<b>OLYMPUS DIGITAL USED</b>	50 F1.4.....£99
BG-E6 box.....£119		TAM 24-70 F2.8 Di VC.....£599	645 Super body.....£89	85 F1.4 G box.....£599	80-400 F4.5/5.6 VR.....£599	E400 body.....£99	50 F1.7 PKA.....£59
BG-E7.....£99		TAM 70-200 F2.8 Di.....£799	FE401 AE prism box.....£179	100-300 F4.5/5.6 APO.....£169	85 F1.4 AFD.....£679	11-22 F2.8/3.5 M-.....£469	50 F4 macro.....£79
BG-E16 Mint box.....£199		VC USD.....£799	AE prism 645 Super.....£99	500 F8 mirror.....£349	105 F2 DC box.....£629	14-42 F3.5/5.6.....£49	55 F1.8.....£49
G12 compact box.....£219		TAM 90 F2.8 VC box.....£299	Plain prism (645 Super).....£39	VC700 grip.....£39	105 F2.8 VR M.....£479	14-45 F3.5/5.6.....£89	100 f4 macro.....£79
G11 compact box.....£199		TAM 150-600 VC.....£779	WLF 645N/1000S/J.....£49	VG9 grip.....£149	200-400 F4 VRI.....£2999	14-50 F3.8/5.6.....£199	135 F3.5.....£39
SX60 compact.....£269		TAM 180 F3.5 Di.....£369	Polariod Back HP401.....£29	RC1000S/L cord.....£15	300 F2.8 AFS VRI.....£2849	35 F3.5.....£99	Ext tube set.....£69
<b>CANON AF USED</b>		<b>CANON FLASH USED</b>	Polaroid back.....£29	AW90.....£49	300 F4 AFS.....£749	40-150 F4/5.6.....£49	FB1 + FC1 LX V/F.....£119
EOS 1V body.....£299		ST-E2 transmitter.....£89	120				





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## PRINTER INK CARTRIDGES



# EPSON

COMPATIBLE & ORIGINAL INK



At Premier Ink Supplies, we stock two types of cartridges for Epson printers - **Originals**, which are made by Epson, and **Compatibles**, which are made by a UK company called **Jet Tec**. Using **Jet Tec Compatibles** is a way of saving money, without compromising on the quality of your prints. Here're the results from two **independent** ink tests that agree...

**Digital**  
PHOTOGRAPHY

**Ink Test Winner**



"Jet Tec's colours were superb, with single greys and blacks very close to Epson ...so Jet Tec wins!"

- Total Digital Photography Magazine

"What we're looking at here is not only the best choice of ink for the R300 printer, but also the best ink in this group test, period. There's just no getting away from the superb combination of performance and pricing"

- Computer Upgrade Magazine

Cartridge Code:	Originals:	Jet Tec Compatibles:	Suitable EPSON Printers:
T007 Black	<b>£29.99</b> 16ml	<b>£3.99</b> 20ml, 3 for <b>£10.99</b>	Photo 790, 870, 890, 895, 900, 915, 1290
T008 Colour	<b>£23.99</b> 46ml	<b>£4.99</b> 50ml, 3 for <b>£13.99</b>	Photo 790, 870, 890, 895, 915
T009 Colour	<b>£29.99</b> 66ml	<b>£4.99</b> 70ml, 3 for <b>£13.99</b>	Photo 900, 1270, 1290
T026 Black	<b>£39.99</b> 16ml	<b>£3.99</b> 20ml, 3 for <b>£10.99</b>	Photo 810, 830, 830u, 925, 935
T027 Colour	<b>£29.99</b> 46ml	<b>£4.99</b> 50ml, 3 for <b>£13.99</b>	
T0341-T0347 Set of 7	<b>£126.99</b> set of 7	Check Website.	Photo 2100
T0341/8, each	<b>£15.99</b> 17ml	Check Website.	Chameleon Inks
T0342/3/4, each	<b>£18.99</b> 17ml	Check Website.	
T0345/6/7, each	<b>£18.99</b> 17ml	Check Website.	
T0441-T0454 Set of 4	<b>£49.99</b> set of 4	<b>£14.99</b> , 3 sets for <b>£42.99</b>	C64, C66, C84, C86,
T0441 Black	<b>£21.99</b> 13ml	<b>£4.99</b> 21ml, 3 for <b>£13.99</b>	CX3600/3650, CX6400, CX6600
T0452/3/4, each	<b>£11.99</b> 8ml	<b>£3.99</b> 21ml, 3 for <b>£10.99</b>	Parasol Inks
T0481-T0486 Set of 6	<b>£69.99</b> set of 6	<b>£19.99</b> , 3 sets for <b>£56.99</b>	R200, R220, R300, R320, R340
T0481/2/3, each	<b>£16.99</b> 13ml	<b>£3.99</b> 21ml, 3 for <b>£10.99</b>	RX500, RX600, RX620, RX640
T0484/5/6, each	<b>£16.99</b> 13ml	<b>£3.99</b> 21ml, 3 for <b>£10.99</b>	Seahorse Inks
T0540-T0549 Set of 8	<b>£109.99</b> set of 8	<b>£35.99</b> , 3 sets for <b>£99.99</b>	Photo R800, R1800
T0540 Gloss	<b>£8.99</b> 13ml	<b>£3.99</b> 21ml, 3 for <b>£13.99</b>	Frog Inks
T0541/2/3/4, each	<b>£14.99</b> 13ml	<b>£4.99</b> 21ml, 3 for <b>£13.99</b>	
T0547/8/9, each	<b>£14.99</b> 13ml	<b>£4.99</b> 21ml, 3 for <b>£13.99</b>	
T0551-T0554 Set of 4	<b>£34.99</b> set of 4	<b>£14.99</b> , 3 sets for <b>£42.99</b>	Photo R240, R245,
T0551 Black	<b>£8.99</b> 8ml	<b>£4.99</b> 21ml, 3 for <b>£10.99</b>	RX420, RX425, RX520, RX525
T0552/3/4, each	<b>£8.99</b> 8ml	<b>£3.99</b> 21ml, 3 for <b>£10.99</b>	Duck Inks
T0591-T0599 Set of 8	<b>£99.99</b> set of 8	Check Website.	Photo R2400
T0591/2/3, each	<b>£12.99</b> 13ml	Check Website.	Lilly Inks
T0594/5/6, each	<b>£12.99</b> 13ml	Check Website.	
T0597/8/9, each	<b>£12.99</b> 13ml	Check Website.	
T0611-T0614 Set of 4	<b>£34.99</b> set of 4	<b>£14.99</b> , 3 sets for <b>£42.99</b>	D68, D88,
T0611 Black	<b>£8.99</b> 8ml	<b>£4.99</b> 21ml, 3 for <b>£13.99</b>	DX3800/3850, DX4200/4250, DX4800/4850
T0612/3/4, each	<b>£8.99</b> 8ml	<b>£3.99</b> 21ml, 3 for <b>£10.99</b>	Teddy Bear Inks
T0711-T0714 Set of 4	<b>£34.99</b> set of 4	<b>£14.99</b> , 3 sets for <b>£42.99</b>	S20, S21, SX100/105/110/115/200/205/210/215
T0711 Black	<b>£8.99</b> 7.4ml	<b>£4.99</b> 13ml, 3 for <b>£13.99</b>	SX400/405/415/515, D78/92/120, B40W, BX300
T0712/3/4, each	<b>£8.99</b> 5.5ml	<b>£3.99</b> 13ml, 3 for <b>£10.99</b>	DX4000/4400/5000/6000/7000/7400/8400/9400
T0791-T0796 Set of 6	<b>£74.99</b> set of 6	Check Website.	Photo 1400
T0791/2/3, each	<b>£12.99</b> 10ml	Check Website.	Owl Inks
T0794/5/6, each	<b>£12.99</b> 10ml	Check Website.	
T0801-T0806 Set of 6	<b>£51.99</b> set of 6	<b>£19.99</b> , 3 sets for <b>£57.99</b>	Photo P50, PX650/660/700W/710W/720WD,
T0801/2/3, each	<b>£8.99</b> 7.4ml	<b>£3.99</b> 13ml, 3 for <b>£10.99</b>	PX730WD/800FW/810FW/830FWD/830FWD
T0804/5/6, each	<b>£8.99</b> 7.4ml	<b>£3.99</b> 13ml, 3 for <b>£10.99</b>	R265/285/360, RX560/585/685
T0870-T0879 Set of 8	<b>£74.99</b> set of 8	Check Website.	Photo R1900
T0870 Gloss	<b>£7.99</b> 11.4ml	Check Website.	Flamingo Inks
T0871/2/3/4, each	<b>£9.99</b> 11.4ml	Check Website.	
T0877/8/9, each	<b>£9.99</b> 11.4ml	Check Website.	
T0961-T0969 Set of 8	<b>£74.99</b> set of 8	Check Website.	Photo R2880
T0961/2/3/4/5, each	<b>£9.99</b> 11.4ml	Check Website.	Husky Inks
T0966/7/8/9, each	<b>£9.99</b> 11.4ml	Check Website.	
T1281-T1284 Set of 4	<b>£29.99</b> set of 4	<b>£14.99</b> set of 4	S22, SX125/130, SX420W/425W/445W,
T1281 Black	<b>£7.99</b> 5.9ml	<b>£4.99</b> 13ml	BX305F
T1282/3/4, each	<b>£7.99</b> 3.5ml	<b>£3.99</b> 10ml	Fox Inks
T1291-T1294 Set of 4	<b>£42.99</b> set of 4	<b>£16.99</b> sets of 4	SX420W/425W/445W/525WD/620FW,
T1291 Black	<b>£10.99</b> 11.2ml	<b>£5.49</b> 16ml	BX305F/320FW/525WD/535WD/625FWD/630FWD,
T1292/3/4, each	<b>£10.99</b> 7ml	<b>£4.49</b> 13ml	BX635FWD/BX925FWD/BX935FWD, B42WD
T1571-9, each	<b>£20.99</b> 25.9ml each or <b>£164.99</b> set of 8		Photo R3000 Turtle Inks
T1591-9, each	<b>£14.99</b> 17ml each or <b>£107.99</b> set of 8		Photo R2000 Kingfisher Inks
T5591-6, each	<b>£13.99</b> 13ml each or <b>£74.99</b> set of 6		Photo RX700 Penguin Inks
T5801-9, each	<b>£41.99</b> 80ml each or <b>£329.99</b> set of 8		Photo Pro 3800, 3880
No.16 Set of 4	<b>£24.99</b> set of 4	<b>£14.99</b> set of 4	Workforce WF-2010W, 2510WF, 2520NF,
No.16 Black	<b>£7.99</b> 5.4ml	<b>£4.99</b> 18ml	2530WF, 2540WF
No.16 C/M/Y, each	<b>£5.99</b> 3.1ml	<b>£3.99</b> 13ml	Fountain Pen Inks
No.16XL Set of 4	<b>£44.99</b> set of 4	<b>£14.99</b> set of 4	Workforce WF-2010W, 2510WF, 2520NF,
No.16XL Black	<b>£14.99</b> 12.9ml	<b>£4.99</b> 18ml	2530WF, 2540WF
No.16XL C/M/Y, each	<b>£11.99</b> 6.5ml	<b>£3.99</b> 13ml	High Capacity Fountain Pen Inks
No.18 Set of 4	<b>£22.99</b> set of 4	<b>£14.99</b> set of 4	Expression Home XP30, XP102, XP202, XP205
No.18 Black	<b>£7.99</b> 5.2ml	<b>£4.99</b> 18ml	XP302, XP305, XP402, XP405
No.18 C/M/Y, each	<b>£5.99</b> 3.3ml	<b>£3.99</b> 13ml	Daisy Inks
No.18XL Set of 4	<b>£46.99</b> set of 4	<b>£14.99</b> set of 4	Expression Home XP30, XP102, XP202, XP205
No.18XL Black	<b>£14.99</b> 11.5ml	<b>£4.99</b> 18ml	XP302, XP305, XP402, XP405
No.18XL C/M/Y, each	<b>£11.99</b> 6.6ml	<b>£3.99</b> 13ml	High Capacity Daisy Inks
No.24 Set of 6	<b>£44.99</b> set of 6		Expression Photo XP750, XP850
No.24 B/LC/LM, each	<b>£7.99</b> 5.1ml		Elephant Inks
No.24 C/M/Y, each	<b>£7.99</b> 4.6ml		
No.24XL Set of 6	<b>£69.99</b> set of 6		Expression Photo XP750, XP850
No.24XL B/LC/LM, each	<b>£11.99</b> 9.8ml		High Capacity Elephant Inks
No.24XL C/M/Y, each	<b>£11.99</b> 8.7ml		
No.26 Set of 4 (no PB)	<b>£30.99</b> set of 4		Expression Premium XP600, XP605, XP700,
No.26 Black	<b>£8.99</b> 6.2ml		XP800
No.26 Photo Black	<b>£7.99</b> 4.7ml		Polar Bear Inks
No.26 C/M/Y, each	<b>£7.99</b> 4.5ml		
No.26XL Set of 4 (no PB)	<b>£54.99</b> set of 4		Expression Premium XP600, XP605, XP700,
No.26XL Black	<b>£14.99</b> 12.1ml		XP800
No.26XL Photo Black	<b>£13.99</b> 8.7ml		High Capacity Polar Bear Inks
No.26XL C/M/Y, each	<b>£13.99</b> 9.7ml		

If you cannot find the ink cartridges for your printer, please check our website, or give us a call, and we'll do our best to help. We stock what is probably the UK's largest range of ink cartridges and photo paper, including wide format ink cartridges and roll papers.

## Canon

### Canon Originals

BCi6 All colours, 13ml, each	<b>£8.99</b>
PGi5 Black 26ml	<b>£12.99</b>
CLi8 All colours, 13ml, each	<b>£10.99</b>
CLi42 All colours, 13ml, each	<b>£10.99</b>
CLi42 Set of 8	<b>£79.99</b>
PGi9 All colours, 14ml, each	<b>£9.99</b>
PGi9 Set of 10	<b>£89.99</b>
PGi29 All colours, 36ml, each	<b>£22.99</b>
PGi29 Set of 12	<b>£269.99</b>
PGi72 All colours, 14ml, each	<b>£10.99</b>
PGi72 Set of 10	<b>£99.99</b>
PGi520 Black 19ml	<b>£10.99</b>
CLi521 B/C/M/Y/GY 9ml	<b>£9.99</b>
PGi520/CLi521 Set of 5	<b>£46.99</b>
PGi525 Black 19ml	<b>£10.99</b>
CLi526 B/C/M/Y/GY 9ml	<b>£9.99</b>
PGi525/CLi526 Set of 5	<b>£46.99</b>
PGi550 Black 15ml	<b>£10.99</b>
CLi551 B/C/M/Y/GY 7ml	<b>£8.99</b>
PGi550/CLi551 Set of 5	<b>£42.99</b>
PG40 Black 16ml	<b>£14.99</b>
PG50 Black 22ml	<b>£21.99</b>
PG510 Black 9ml	<b>£11.99</b>
PG512 Black 15ml	<b>£16.99</b>
PG540XL Black 21ml	<b>£17.99</b>
PG545XL Black 15ml	<b>£16.99</b>
CL41 Colour 12ml	<b>£18.99</b>
CL51 Colour 21ml	<b>£25.99</b>
CL511 Colour 9ml	<b>£15.99</b>
CL513 Colour 13ml	<b>£20.99</b>
CL541XL Colour 15ml	<b>£19.99</b>
CL546XL Colour 13ml	<b>£18.99</b>

### Canon Compatibles

BCi6 All colours, 15ml, each	<b>£2.99</b>
PGi5 Black 29ml	<b>£4.99</b>
CLi8 B/C/M/Y/PC/PM 15ml	<b>£3.99</b>
PGi520 Black 19ml	<b>£4.99</b>
CLi521 B/C/M/Y/GY 9ml	<b>£3.99</b>
PGi525 Black 19ml	<b>£4.99</b>
CLi526 B/C/M/Y/GY 9ml	<b>£3.99</b>
PGi550XL Black 25ml	<b>£4.99</b>
CLi551XL B/C/M/Y/GY12ml	<b>£3.99</b>
PG40 Black 28ml	<b>£13.99</b>
PG50 Black 28ml	<b>£12.99</b>
PG510 Black 11.5ml	<b>£13.99</b>
PG512 Black 18ml	<b>£14.99</b>
PG540XL Black 21ml	<b>£13.99</b>
CL41 Colour 16ml	<b>£16.99</b>
CL51 Colour 24ml	<b>£14.99</b>
CL512 Colour 11.5ml	<b>£15.99</b>
CL513 Colour 15ml	<b>£16.99</b>
CL541XL Colour 15ml	<b>£15.99</b>

Many more in stock!

## hp

### HP Originals

No.38 All Colours 27ml each	<b>£26.99</b>
No.300 Black 4ml	<b>£10.99</b>
No.300 Colour 4ml	<b>£12.99</b>
No.301 Black 3ml	<b>£9.99</b>
No.301 Colour 3ml	<b>£11.99</b>
No.337 Black 11ml	<b>£18.99</b>
No.338 Black 11ml	<b>£18.99</b>
No.339 Black 21ml	<b>£25.99</b>
No.343 Colour 7ml	<b>£20.99</b>
No.344 Colour 14ml	<b>£28.99</b>
No.350 Black 4.5ml	<b>£11.99</b>
No.351 Colour 3.5ml	<b>£14.99</b>
No.363 Black 6ml	<b>£13.99</b>
No.363 C/M/Y/PC/PM each	<b>£9.99</b>
No.364 Black 6ml	<b>£7.99</b>
No.364 PB/C/M/Y 3ml each	<b>£6.99</b>
No.364 Set of 4	<b>£22.99</b>
No.901 Black 4ml	<b>£11.99</b>
No.901 Colour 9ml	<b>£14.99</b>
No.920XL Set of 4	<b>£46.99</b>
No.932XL Black 22.5ml each	<b>£21.99</b>
No.933XL C/M/Y 8.5ml each	<b>£9.99</b>
No.940XL Set of 4	<b>£69.99</b>
No.950XL Black 53ml each	<b>£24.99</b>
No.951XL C/M/Y 24ml each	<b>£17.99</b>

### HP Compatibles

No.15 Black 46ml	<b>£4.99</b>
No.21 Black 10ml	<b>£7.99</b>
No.22 Colour 21ml	<b>£11.99</b>
No.45 Black 45ml	<b>£4.99</b>
No.56 Black 24ml	<b>£9.99</b>
No.57 Colour 24ml	<b>£12.99</b>
No.78 Colour 36ml	<b>£9.99</b>
No.110 Colour 12ml	<b>£10.99</b>
No.300XL Black 18ml	<b>£14.99</b>
No.300XL Colour 18ml	<b>£16.99</b>
No.301XL Black 15ml	<b>£14.99</b>
No.301XL Colour 18ml	<b>£16.99</b>
No.336 Black 10ml	<b>£7.99</b>
No.337 Black 21ml	<b>£10.99</b>
No.338 Black 21ml	<b>£10.99</b>
No.339 Black 34ml	<b>£12.99</b>
No.342 Colour 12ml	<b>£10.99</b>
No.343 Colour 21ml	<b>£12.99</b>
No.344 Colour 21ml	<b>£14.99</b>
No.348 Photo 21ml	<b>£12.99</b>
No.350XL Black 30ml	<b>£14.99</b>
No.351XL Colour 20ml	<b>£16.99</b>
No.363 Black 20ml	<b>£6.99</b>
No.363 C/M/Y/PC/PM each	<b>£4.99</b>
No.364XL Black 18ml	<b>£9.99</b>
No.364XL C/M/Y 11ml each	<b>£8.99</b>

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## Kodak

### Kodak Original Ink / Paper

ESP Black Series 10 Ink	<b>£6.99</b>
ESP Colour Series 10 Ink	<b>£12.99</b>
ESP Black Series 30 Ink	<b>£6.99</b>
ESP Colour Series 30 Ink	<b>£12.99</b>
ESP Black/Colour Twin Packs	<b>£18.99</b>

Kodak Photo Paper also in stock!

## brother

### Brother Originals

LC1100 Set of 4	<b>£36.99</b>
LC1240 Set of 4	<b>£47.99</b>
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### Brother Compatibles

LC900 Set of 4	<b>£11.99</b>
LC970 / 1000 Set of 4	<b>£11.99</b>
LC980 / 1100 Set of 4	<b>£11.99</b>
LC985 Set of 4	<b>£11.99</b>
LC1240 Set of 4	<b>£11.99</b>
LC1280XL Set of 4	<b>£15.99</b>

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## LEXMARK

### Lexmark Originals

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No.15 Colour	<b>£20.99</b>
No.28 Black	<b>£18.99</b>
No.29 Colour	<b>£19.99</b>
No.32 Black	<b>£22.99</b>
No.33 Colour	<b>£24.99</b>
No.36 Black	<b>£19.99</b>
No.37 Colour	<b>£20.99</b>
No.100 Set of 4	<b>£39.99</b>

### Lexmark Compatibles

No.1 Colour	£10.99
No.2 Colour	£11.99
No.3 Black	£14.99
No.16 Black	£11.99
No.17 Black	£9.99
No.26 Colour	£12.99
No.27 Colour	£11.99
No.32 Black	£9.99
No.33 Colour	£11.99
No.34 Black	£11.99
No.35 Colour	£12.99



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**Lexar Professional Dual Slot Reader SD & Compact Flash**

USB3.0 Reader 500MB/s £25.99

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## BATTERIES

### Camera Batteries

A comprehensive range of rechargeable Li-Ion batteries. Manufactured by respected independent battery manufacturers Energizer, Hahnel and Blumax. All batteries come with a 2 year guarantee.

**NB-2L/LH for Canon** £9.99

**NB-4L for Canon** £9.99

**NB-5L for Canon** £9.99

**NB-6L for Canon** £9.99

**NB-7L for Canon** £12.99

**NB-9L for Canon** £9.99

**NB-10L for Canon** £12.99

**NB-11L for Canon** £12.99

**BP-511 for Canon** £12.99

**LP-E5 for Canon** £12.99

**LP-E6 for Canon** £19.99

**LP-E8 for Canon** £15.99

**LP-E10 for Canon** £12.99

**LP-E12 for Canon** £12.99

**NP45 for Fuji** £9.99

**NP50 for Fuji** £9.99

**NP95 for Fuji** £9.99

**NPW126 for Fuji** £17.99

**NP400 for Minolta** £12.99

**EN-EL1 for Nikon** £9.99

**EN-EL3E for Nikon** £14.99

**EN-EL5 for Nikon** £9.99

**EN-EL9 for Nikon** £12.99

**EN-EL10 for Nikon** £9.99

**EN-EL11 for Nikon** £9.99

**EN-EL12 for Nikon** £9.99

**EN-EL14 for Nikon** £19.99

**EN-EL15 for Nikon** £24.99

**EN-EL19 for Nikon** £12.99

**EN-EL20 for Nikon** £14.99

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**BG-1 for Sony** £19.99

**BX-1 for Sony** £14.99

**NP-FM500H for Sony** £19.99

**NP-FH50 for Sony** £19.99

**NP-FW50 for Sony** £24.99

### Professional Battery Grips

A range of professional battery grips from Hahnel. All can take two Li-Ion batteries for double the battery power. AA battery compartment and/or vertical shutter release and/or infrared remote, depending on model.

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**For Canon 7D:** £84.99

**For Canon 60D:** £84.99

**For Canon 550D:** £84.99

**For Canon 600D:** £84.99

**For Canon 650D:** £84.99

**For Canon 700D:** £84.99

**For Nikon D600:** £84.99

**For Nikon D800/D800E:** £84.99

**For Nikon D7000:** £84.99

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The NEW Hahnel UniPal charger is able to charge AA, AAA, Li-Ion batteries, cameras, phones, iPods and more! Mains power cable, plus 12V car charger. Full details on our website. £19.99

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AA 2300mAh Energizer Extreme (4)	£8.99
AA 2500mAh GP (4)	£8.99
AA 2900mAh Delkin (4)	£9.99
AAA 850mAh GP Recyco (4)	£5.99
AAA 950mAh Duracell (4)	£6.99
AAA 1100mAh Lloytron (4)	£4.99

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AA Energizer Ultimate Lithium (4)	£5.99
AAA Energizer Ultimate Lithium (4)	£6.99
CR123A Energizer Lithium (1)	£1.99
CR2 Energizer Lithium (1)	£1.99
2CR5 Energizer Lithium (1)	£3.99
CRV3 Energizer Lithium (1)	£5.99
LR44 Energizer Alkaline (2)	£1.99
CR2025, CR2032 etc	£1.99

## SCREW-IN FILTERS

<b>KOOD</b> Slim Frame UV Filters	<b>Marumi DHG</b> Slim Frame Multicoated Clear Protection Filters	<b>Hoya HMC</b> Slim Frame Multicoated UV Filters
46mm £4.99	46mm £10.99	37mm £12.99
49mm £4.99	49mm £10.99	46mm £12.99
52mm £4.99	52mm £10.99	52mm £11.99
55mm £5.99	55mm £11.99	58mm £14.99
58mm £6.99	58mm £12.99	62mm £16.99
62mm £7.99	62mm £14.99	67mm £18.99
67mm £8.99	67mm £15.99	72mm £21.99
72mm £9.99	72mm £17.99	77mm £25.99
77mm £11.99	77mm £19.99	82mm £29.99
82mm £14.99	82mm £22.99	
86mm £19.99		
<b>KOOD</b> Slim Frame Circular Polarising Filters	<b>Marumi DHG</b> Slim Frame Multicoated UV Filters	<b>Hoya Pro-1 Digital</b> Slim Frame Multicoated UV Filters
46mm £12.99	52mm £13.99	52mm £27.99
52mm £14.99	58mm £15.99	58mm £32.99
55mm £15.99	62mm £17.99	62mm £35.99
58mm £17.99	67mm £19.99	67mm £39.99
62mm £19.99	72mm £21.99	72mm £44.99
67mm £22.99	77mm £24.99	77mm SPECIAL £39.99
72mm £26.99		82mm £56.99
77mm £29.99		
82mm £34.99		
86mm £39.99		
<b>KOOD</b> Close Up Filter Sets (+1, +2 & +4)	<b>Marumi DHG</b> Slim Frame Multicoated Circular Polarising Filters	<b>Hoya Pro-1 Digital</b> Slim Frame Multicoated Circular Polarising Filters
52mm £26.99	52mm £31.99	52mm £52.99
58mm £34.99	58mm £35.99	58mm £60.99
	62mm £39.99	62mm £67.99
	67mm £44.99	67mm £75.99
	72mm £49.99	72mm £90.99
	77mm £54.99	77mm SPECIAL £79.99
	82mm £69.99	82mm £120.99

## SQUARE FILTERS

### KOOD P-Type Filter System

The P-Type square/rectangular filter system consists of three parts:

- 1) An adapter ring that screws onto the front of your lens
- 2) A filter holder clips onto the ring
- 3) One or more P-Type (84mm wide) filters

**KOOD square filters are manufactured in the UK, and are fully compatible with the Cokin P-Type filter system**

49mm Adapter Ring	£4.99	Circular Polarizing	£29.99
52mm Adapter Ring	£4.99	ND2	£9.99
55mm Adapter Ring	£4.99	ND4	£9.99
58mm Adapter Ring	£4.99	ND8 NEW	£10.99
62mm Adapter Ring	£4.99	ND2 Soft Graduated	£11.99
67mm Adapter Ring	£4.99	ND2 Hard Graduated	£11.99
72mm Adapter Ring	£4.99	ND4 Soft Graduated	£11.99
77mm Adapter Ring	£4.99	ND4 Hard Graduated	£11.99
82mm Adapter Ring	£4.99	ND8 Soft Graduated NEW	£13.99
Standard Holder	£5.99	ND8 Hard Graduated NEW	£13.99
Wide Angle Holder	£6.99	Light Blue Graduated	£11.99
Filter Wallet (hold 8 filters)	£9.99	Dark Blue Graduated	£11.99
		Light Sunset Graduated	£11.99
		Dark Sunset Graduated	£11.99
		Light Tobacco Graduated	£11.99
		Dark Tobacco Graduated	£11.99
		Light Mauve Graduated	£11.99
		Dark Mauve Graduated	£11.99
		Fog (strong or light)	£9.99
		Diffuser (strong or light)	£9.99
		Starburst (x4, x6 or x8)	£12.99
		Close-Up (+1, +2 or +4)	£12.99
		Red, Orange, Yellow each	£9.99

**Six-Piece ND Filter Kit £43.99**

Here's a kit which includes all the popular ND filters, and everything you need to get started! The kit contains: 1x ND2 Filter, 1x ND2 Soft Graduated Filter, 1x ND4 Filter, 1x ND4 Soft Graduated Filter, 1x P-Type Filter Holder, 1x P-Type Adapter Ring of your choice (49-82mm).

## LENS HOOD & CAPS

<b>Bayonet-Fit Lens Hoods</b>	<b>Screw-Fit Lens Hoods</b>
A comprehensive range of aftermarket matt black bayonet-fit lens hoods for Canon, Nikon and Sony lenses.	
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ET-60 Canon 75-300/4-5.6 £9.99	58mm Shaped Petal Hood £6.99
ET-65B Canon 70-300/4-5.6 £9.99	62mm Shaped Petal Hood £7.99
ET-67 Canon 100/2.8 Macro £9.99	67mm Shaped Petal Hood £7.99
ET-67B Canon 60/2.8 £9.99	72mm Shaped Petal Hood £9.99
EW-60C Canon 18-55 IS £7.99	46mm Rubber Hood £3.99
EW-73B Canon 17-85 IS £9.99	52mm Rubber Hood £3.99
EW-78BII Canon 28-135 IS £9.99	58mm Rubber Hood £4.99
EW-78D Canon 18-200 IS £9.99	62mm Rubber Hood £4.99
EW-78E Canon 15-85 IS £12.99	67mm Rubber Hood £5.99
EW-83E Canon 17-40/4.0 £12.99	72mm Rubber Hood £5.99
EW-83J Canon 17-55/2.8 £12.99	77mm Rubber Hood £5.99
HB-45 Nikon 18-55 VR £7.99	
SH-006 Sony 18-70/3.5-5.6 £9.99	

**Lens Caps**

Lens Caps Centre-Pinch Style	£2.99
Lens Caps White Balance	£9.99
Body Caps Ni/Ca/Px/OI/So	£3.99
Rear Caps Ni/Ca/Px/OI/So	£3.99

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Folded: 63cm  
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D7100 Body	£759	18-300mm f3.5-5.6 VR DX	£679	58mm f1.4 G	£1,399	SB910 Speedlight	£349
D7100 + 18-105mm VR	£919	24-70mm f2.8	£1,249	85mm f1.8 G	£379	SB700 Speedlight	£229
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		70-200mm f2.8 VR II	£1,629	105mm f2.8 Micro VR	£629	Coolpix A Camera	£475
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H5D-40 + 80mm f2.8 Lens	£10,995	S-E Body	£12,480
H5D-50	£20,895	M-P Silver/Black	£5,650
H5D-50 Multi-Shot	£26,750	M (type 240) Silver/Black	<b>£4,299</b>
H5D-50c	£19,995	<b>Demo camera in store</b>	
H5D-50c Wi-Fi	£23,634	M Monochrome Silver/Black	£5,975
H5D-50c Multi-Shot	£26,779	T Body Silver/Black	£1,350
H5D-60	£29,750	T body + 23mm Lens	£2,700
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H5D-200c Multi-Shot	£33,795	X 2	£1,349
CFV-50c Digital Back	£11,400	X Vario Silver/Black	£1,499
In store demo available. See Website for full list of Hasselblad lenses and accessories		X (type 113) Silver/Black	£1,550
		X-E (type 102)	£1,250
		D-Lux 6	£529
		D-Lux (type 109)	£825
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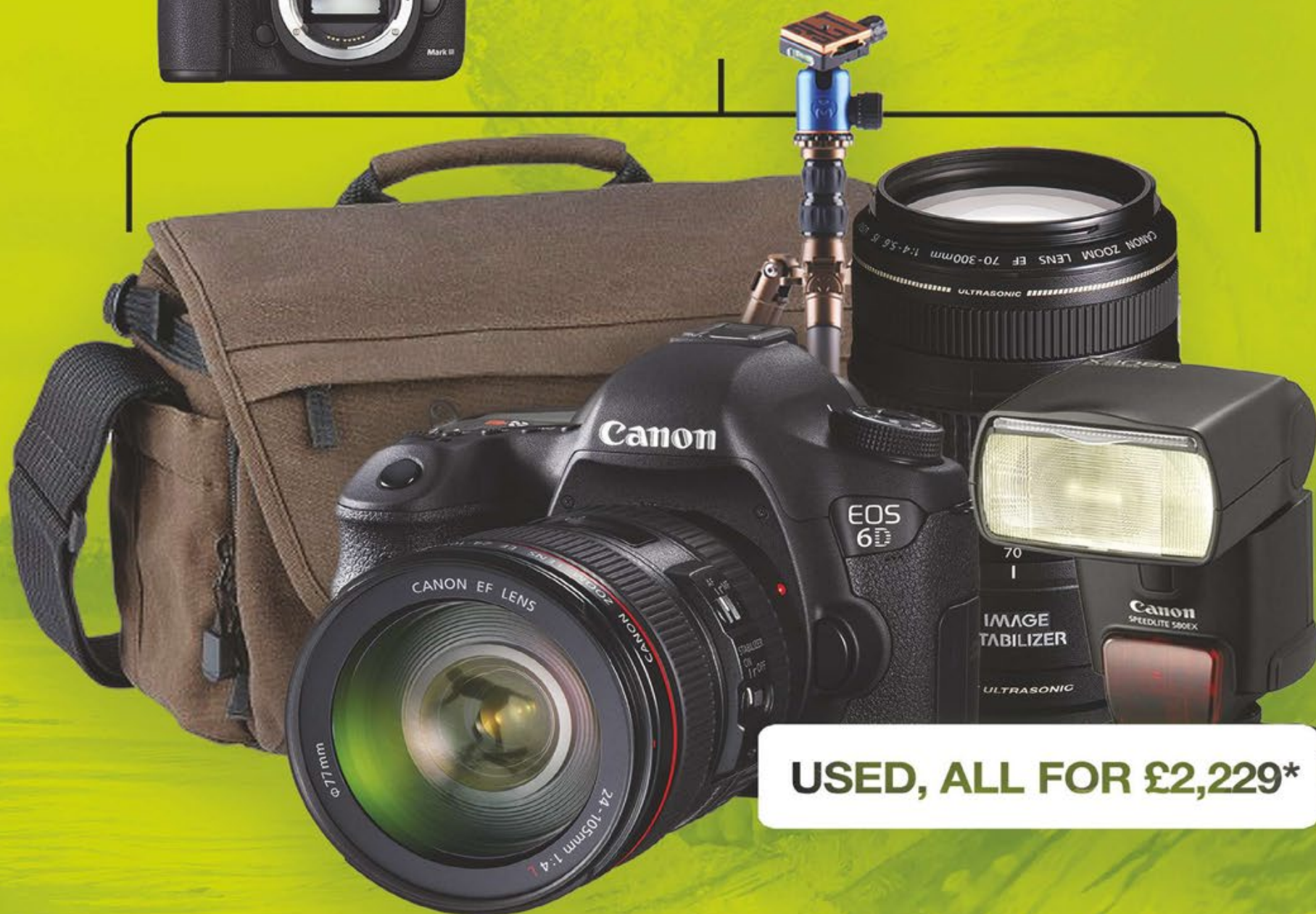
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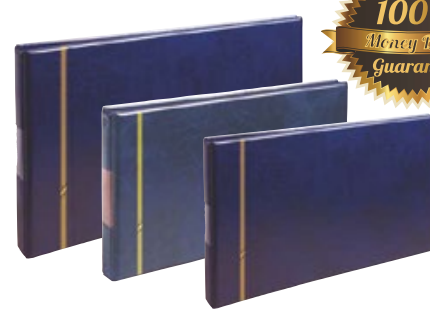
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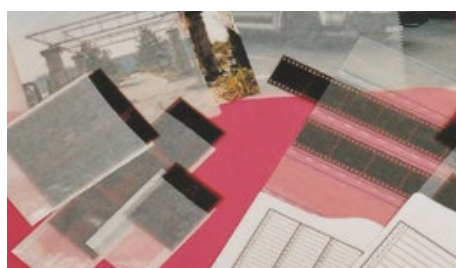
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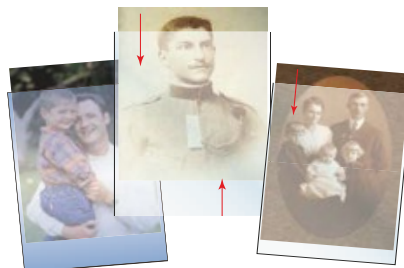
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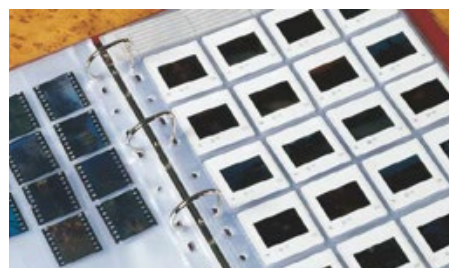
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### Golden Eagle Experience in Leicestershire 2015 Dates £99

April 19th, May 17th; Golden Eagle will fly, and perch in carefully chosen natural settings. Jesses hidden for static shots. Controlled flying. Also selection from; Owls, Buzzard, Hawks, Goshawk Max. 8 photographers.

### Cheetahs, Lions, Foxes, Birds of Prey, Cambs. £109

April 18th, May 23rd; Privileged access to Cheetahs, Bengal Tiger, White Tiger & Corsac Foxes. The Cheetah & Tiger enclosures are not mowed for enhanced photographic opportunities. Private Displays by various Birds of Prey, both static & flying. Jesses hidden for static shots. New Cheetah Cubs for 2015

### Amazing Bat Photos & Learn Fill-in Flash Techniques £129

April 16th, 17th; Oxfordshire. We will concentrate on the Bats first. Take amazing bat photos. Practice fill-in flash on many other wildlife subjects in different lighting conditions. Max 4 persons. We are most happy to lend you a Canon digital camera and flash unit for the day. Indoor exhibits make weather conditions irrelevant.

### Big Cats at WHF, Smarden in Kent £149

March 21st, 28th. April 11th; Up close to African Lions, Bengal + Siberian + Sumatran Tigers, Serval, Cheetah, Pumas, Jungle Cat, Amur & Snow Leopards, Black Leopards, Clouded Leopards, Fishing Cat. Large open enclosures. UK's most popular photo workshop. Really special photo opportunities from just inches away. Two sets of Lion Cubs born July & August 2013. Huge natural enclosure. Max 12 clients.

### Big Cats at WHF, Smarden in Kent

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April 8th, 9th, 10th; Full day as above, but with additional space at each enclosure. Time is also put aside to review your photos at lunchtime. One to one tuition throughout this very special day. You will see all the animals as above and you will have more personal interaction with the cats. Now including Jaguar.

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### Gorillas & African Safari Experience, Port Lympe £149

March 22nd, 29th, April 12th; 3 gorilla sessions. No wires, fences or bars throughout the day. Clean back-grounds plus Privileged Access. Photograph at eye level over moat. Huge male silverbacks + family group. Private VIP Safari for 2.5 hours. Rhinos, Wildebeest, Eland, Zebras, Giraffes, Buffalo, Ostriches, various Deer.

### Birds of Prey Workshop, Bedford £99

April 25th, 26th; Private flying displays on pre-determined flightpath helps you to focus on birds in flight. Excellent opportunities with carefully chosen backgrounds. Also static shots in outstanding wooded locations. Jesses carefully hidden. This location boasts one of the largest collections of Birds of Prey in the UK. White tailed Sea Eagle, Bald Eagles, Hawks, Owls, Falcons, Kestrels, Buzzards and Long Eared Owl (new).

### Foxes, Otters, Wildcats, Badgers & more, Surrey. £139

July 6th, 7th, 8th; Inside enclosures 'til sunset. Also Owls, Snakes, Badgers, Polecats, Weasels, Hedgehog, Harvest Mice & various Deer. This is possibly Englands longest established photographic venue. 2 sessions with the foxes, sometimes only inches away from you. Time is spent inside enclosures with Foxes, Otters & Scottish Wildcats. Badgers GUARANTEED. No fences or wires to shoot through for any subject today.

### Small Cats Workshop, Welwyn, Herts. £99

April 22, 23, 24; Privileged access to Snow Leopards, Amur Leopards, Pumas, Caracal, Leopard Cat, Lynx, Servals, Golden Cat. As featured on recent series of TV programs on Animal Planet. Small groups. Tuition

### Bass Rock Gannets £185

June 5, 7, 11, 18, 21st; Private boat. Exclusive use of island for just 10 photographers. 50,000 pairs of nesting gannets on one small island. 4.5 hours photography. Amazing close-ups & fantastic flight shots. Large crate of fish fed to gannets as they dive into the sea. An amazing sight that you will never forget.

### Gannets diving off Bass Rock £99

June 19th; Fantastic new workshop for 2014. We sail round Bass Rock without landing on the island. A whole hour of throwing fish into the sea for the Gannets to catch. Amazing diving shots. 1,000 + dives. Tuition.

### Farne Islands Puffins (Over 5 hrs photography) £89

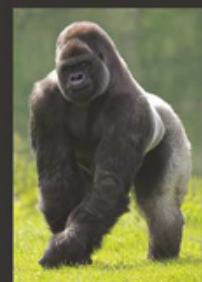
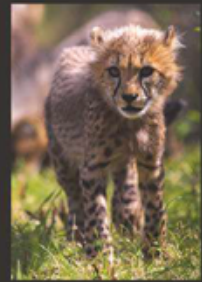
June 6th, 10th, 17th, 20th; 20 species of birds. 50,000 puffins. Guillemots, Razorbills, Shag, Arctic Tern colony etc. You will get unbelievably close to some of the species. Get that much sought after shot of Puffins with their beaks crammed full of sand eels. Tips and Tuition. Approximately 5 hours photography.

### Pro Birds of Prey Shoot, Bamburgh, Northumberland. £139

June 13th, 14th; Amazing photography opportunities. Hill top views overlooking large extensive valleys and seascapes. Rocks and gorse bushes abound. Golden Eagle, Peregrine Falcon, Snowy Owl, Eagle Owl and Barn Owl will be placed in really natural situations. Jesses will be hidden where possible for those perfect "in the wild" shots. Can combine with Bass/Farne as this location is very close to the Farne Islands.

### Pro Birds of Prey Shoot (2), Bamburgh, Northumberland. £139

June 4th, 8th, 12th, 16th; New venue. Both the falconer and the birds are different to workshop above. Venues are about 20 miles apart. We will take two of the birds down to an amazingly beautiful, little known waterfall. This will provide a unique backdrop for your subjects. The falls are surrounded by trees covered with mosses and lichens. We will photograph up to 10 different species, mainly British. Maximum 8 photographers.



For more information, please visit the website or call John Wright on 01664 474040 or 07779 648850 (preferred). We will be most happy to discuss any workshop in detail, or to send more detailed leaflets to anyone without internet access.

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# Final Analysis

**Roger Hicks considers...**

'Salade Trévise', 2001, by Philippe Bachelier

**S**ometimes I drop myself in it with the pictures I select. I choose them on the grounds that I like them, or think they are significant, without necessarily thinking too hard about why. Then, once the incomparable Rosie Barratt has secured the rights, often with only a name and a scan or url to work from, I have to start work.

Which is as it should be, because there are no rules about what makes a good photograph. Or if there are, there are very nearly as many rules as there are good photographs. I believe that thinking is a Good Thing: in art, as elsewhere, I accept Plato's dictum that the unexamined life is not worth living. If I have to think about why I like something, and to defend my choice in this column, I often phrase my admiration as a series of questions in the hope that forcing myself to think will also prompt my readers to think.

So why did I choose this? Here are three reasons. One is its sheer everydayness. A *salade trévise* is a radicchio, a variety of chicory, a reasonably common vegetable. It reminds us that beauty is everywhere, if we can be bothered to notice it. Look at a picture like this, think about it, and with any luck you will see a hundred more beautiful things that day, from a tiny clump of weeds struggling in a crack in the pavement to the elegant curl of a pull-tab tin-lid that you have just peeled off a can of tomatoes. Beauty is life-enhancing, and usually free: we have only to see it.

The second goes a little deeper. Is this really food, or is it merely a photograph of food, a reminder of how things used to be, an exercise in nostalgia? Is preparing food really an everyday experience any more? How often do you prepare your own food? Painters often painted their food before they ate it, and Weston's famous peppers usually came to an honest end on the table. I don't like radicchio – too bitter – but I do like cabbage, which is what I thought this was when I first saw the picture. Shredded and cooked with a little ham, a cabbage makes a meal that most of



© PHILIPPE BACHELIER

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our 18th century ancestors would have regarded as luxurious. Next time, I may take a still life.

Finally, there is the purely photographic aspect. Never mind fifty shades of grey. Here we have infinite shades of grey, the

pearly tonality of the monochrome abstraction. Art is not merely seeing: it is seeing in a particular way, and bringing that way to the attention of others. Thus did Philippe turn a bitter vegetable into sweet art.

AP

Roger Hicks has been writing about photography since 1981 and has published more than three dozen books on the subject, many in partnership with his wife Frances Schultz (visit his website at [www.rogerandfrances.com](http://www.rogerandfrances.com)). Every week in this column Roger deconstructs a classic or contemporary photograph. Next week he considers an image by Alessandra Sanguinetti



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